

2007 CALIFORNIA MOTOR VEHICLE STOCK, TRAVEL AND FUEL FORECAST



California Department of Transportation

Division of Transportation System Information

May 2008

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**2007 CALIFORNIA
MOTOR VEHICLE STOCK, TRAVEL AND FUEL
FORECAST**

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STATEWIDE MODELING BRANCH**

MAY 2008

This report was prepared in cooperation with the
U.S. Department of Transportation
Federal Highway Administration

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I. EXECUTIVE SUMMARY

This is the twenty-third in a series of reports that forecasts Vehicle Miles of Travel (VMT) in California. This report is intended for transportation planning, travel forecasting, air quality modeling, and fuel tax revenue projection.

This report provides forecasts of VMT, Vehicle Fuel Consumption (VFC), registered vehicles, and vehicle fuel economy on a statewide basis. The forecasts are disaggregated by county, road system, vehicle body type, and vehicle fuel type.

Socioeconomic factors that affect vehicle miles of travel include population, per capita personal income, vehicles per person, and the fuel cost per mile of travel.

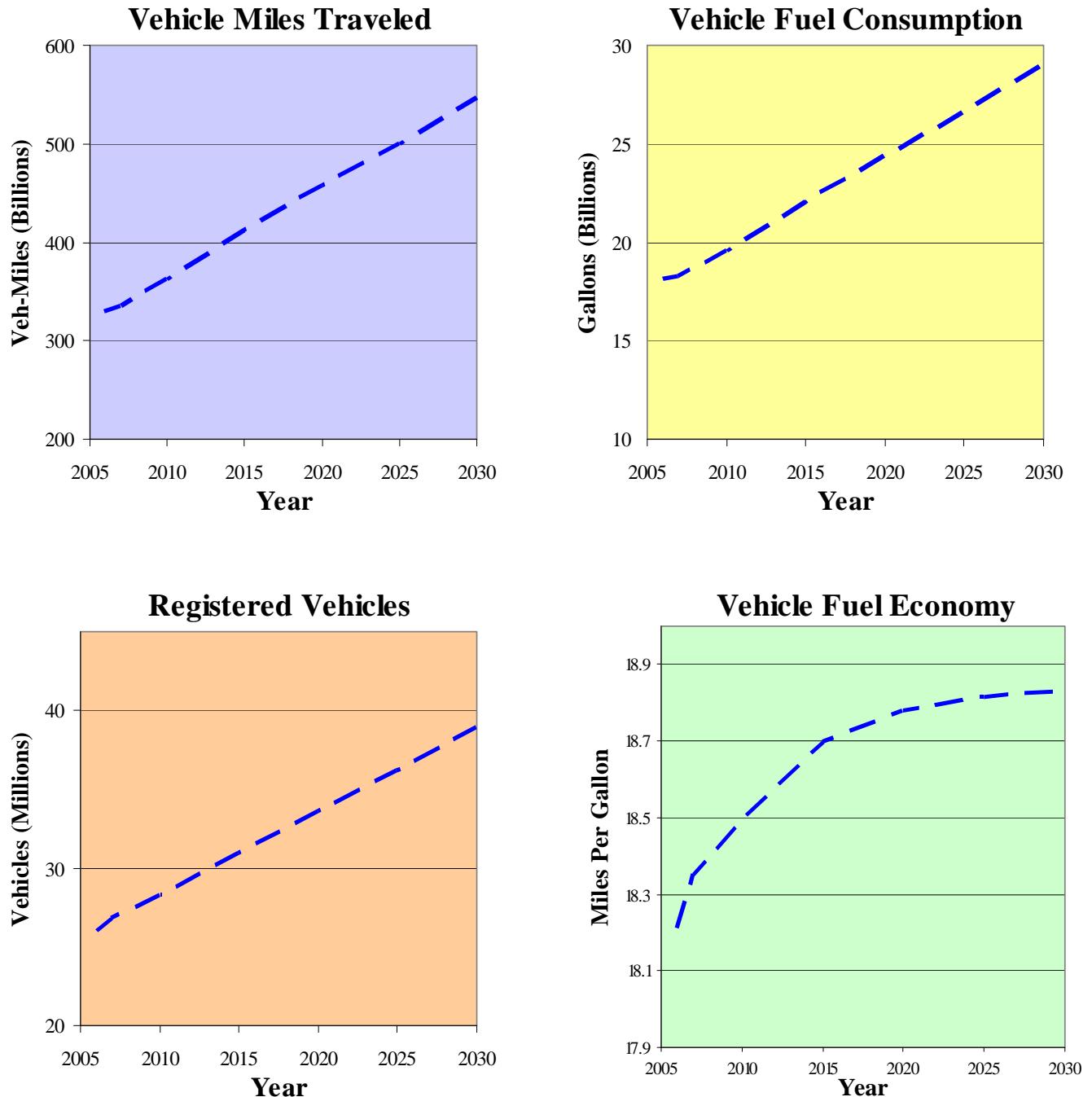
The VMT and VFC are projected to increase by 66 percent and 60 percent respectively from 2006 to 2030. The counties with the most growth in VMT are Los Angeles, Riverside, San Diego, San Bernardino, Orange, Sacramento, and Alameda. The rural counties show very little change in VMT. More detailed forecast results are provided in the body of the report.

Table 1: Key Forecast Values

Year	Vehicle Miles Traveled	Vehicle Fuel Consumption	Registered Vehicles	Vehicle Fuel Economy
	Veh-Miles (Billions)	Gallons (Billions)	Vehicles (Millions)	Miles Per Gallon
2006	329.8	18.10	26.06	18.21
2007	335.2	18.27	26.77	18.35
2010	362.1	19.58	28.24	18.50
2015	412.3	22.05	30.93	18.70
2020	457.0	24.34	33.58	18.78
2025	499.7	26.56	36.13	18.81
2030	546.8	29.04	38.87	18.83

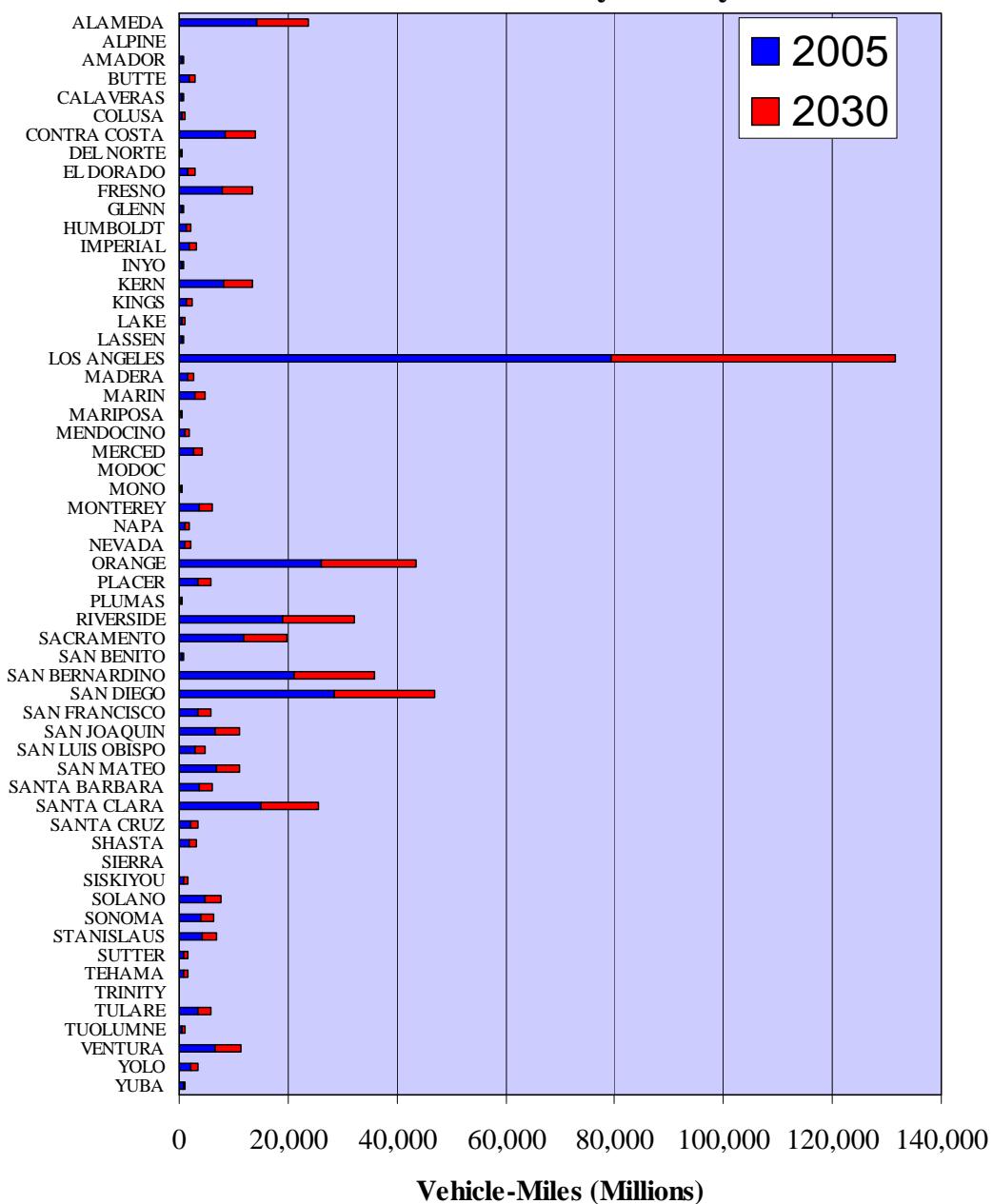
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Figure-1
Forecast Summary



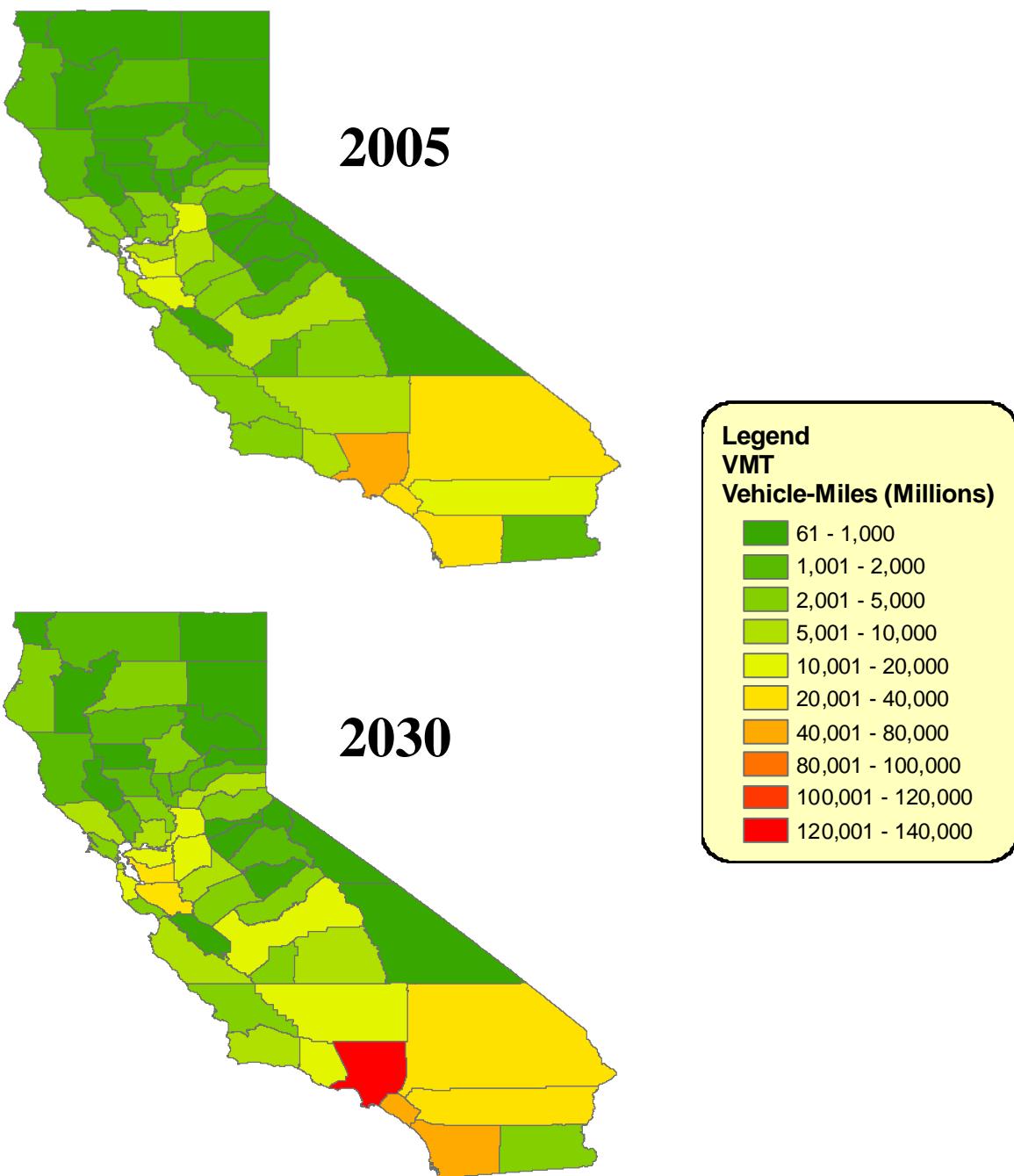
Source: Appendix D

Figure-2
Vehicle Miles Traveled by County



Source Appendix: B

Figure-3
Vehicle Miles Traveled by County
(Spatial Distribution)



Source: Appendix B

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II. INTRODUCTION

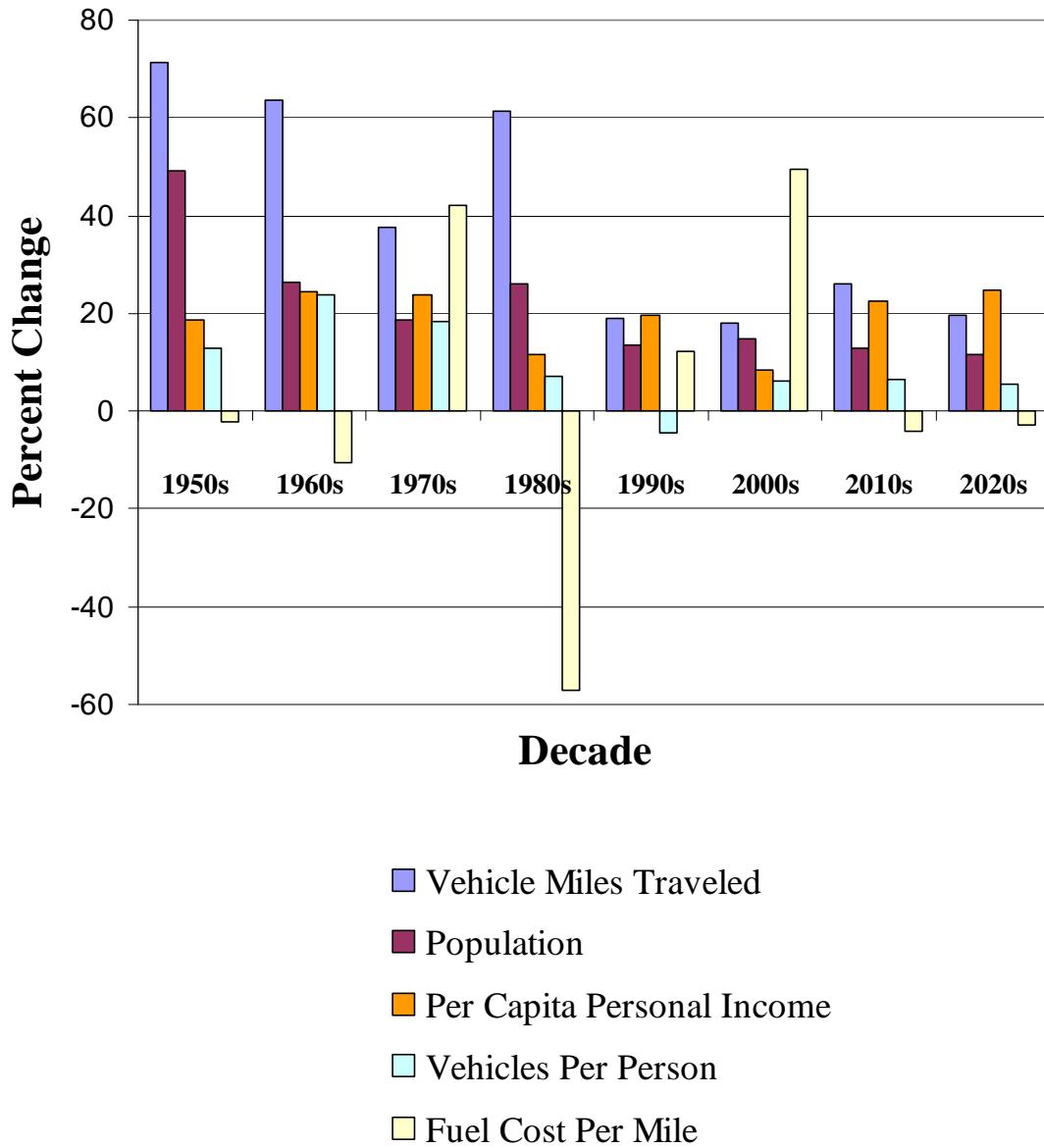
The California Department of Transportation (Department) utilizes forecasts of VMT and VFC for planning and revenue projection purposes. These forecasts are based on the Motor Vehicle Stock, Travel and Fuel Forecast (MVSTAFF) process, which is outlined in Appendix A.

Socioeconomic factors used in the forecasting process include population, per capita personal income, vehicle per person, and the fuel cost per mile of travel. The following summarizes the history of social economic impact of VMT.

- The **1950s** experienced a 71 percent increase in VMT, which was attributed by a 49 percent increase in population and moderate increases in per capita personal income and vehicle ownership. A decrease in fuel price per mile also contributed to the growth of VMT because of their inverse relationship.
- The **1960s** experienced a 64 percent increase in VMT although population grew at about half the rate than it did in the 1950s (26 percent vs. the previous 49 percent). The driving force in the 1960s would appear to be the growth in per capita income and vehicle ownership, the highest in the 50-year history.
- The **1970s** produced a 38 percent increase in VMT as a result of a low increase in population, a slow economy, and a 55 percent rise in fuel prices in the last half of the decade.
- The **1980s** experienced a 62 percent increase in VMT rivaling its growth in the 1950s and 1960s. At the same time, per capita personal income and vehicle ownership grew by 12 percent and 7 percent, respectively. Growth in VMT in the 1980s could be attributed to strong population gain of 26 percent and the precipitous drop in the real fuel cost per mile of travel of 57 percent, resulting from a 45 percent drop in the real price of fuel and a 30 percent increase in the on-road fleet fuel economy.
- The **1990s** saw a 19 percent increase in VMT as population growth slowed down to 15 percent. Per capita personal income showed a 20 percent growth, and fuel cost per mile increased 12 percent due to a sharp increase in fuel prices in 1999 and 2000.
- In the **2000s**, VMT is projected to grow 18 percent, as population growth rates is about 15 percent. Fuel cost per mile is expected to increase 50 percent in the 2000s as well. Most of the increase is in the second half of the decade starting 2005.

- In the **2010s**, VMT is projected to grow 26 percent as the population increases 13 percent. Per capita personal income is expected to increase 23 percent. Fuel cost per mile is forecasted to drop 4 percent in 10 years.
- In the **2020s**, VMT is projected to grow 20 percent as population grows 12 percent. Per capita personal income is expected to increase 25 percent. Fuel cost per mile is projected to drop 3 percent in 10 years.

Figure-4
Socioeconomic Factors Impact on Vehicle Miles Traveled



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III. FORECAST ASSUMPTIONS

The MVSTAFF process requires base year estimates and future year projections of socioeconomic variables and vehicle fuel economy. The assumptions regarding these key variables, that drive the forecasting process, are briefly described below.

A. Socioeconomic Assumptions

The forecasts are based on the projection of socioeconomic data provided by the California Department of Finance (DOF) and the “The UCLA Anderson Forecast for the Nation and California”, and United States Department of Energy.

1. Population

Population projections for the years 2007-2030 were the latest data available from DOF. The State’s population is projected to continue to increase. The rate of increase was about 1.3 percent in 2006, 1.2 percent in 2007, and 1.2 percent in 2008. The annual average rate of increase is about 1.2 percent (2006-2030).

2. The U. S. Consumer Price Index

Projections of total personal income and motor vehicle fuel prices are normally made on a current dollar basis. Because the MVSTAFF process operates on a constant dollar basis, personal income and fuel prices are adjusted for inflation by dividing them by projections of the U. S. Consumer Price Index (U.S. CPI).

3. Per Capita Personal Income

Per Capita Personal Income (PCPI) is an important variable in the MVSTAFF process. For example, PCPI is a major determinant of new car sales, vehicle ownership and annual miles of travel per person.

Total personal income is expected to increase 5.3 percent in 2007, 5.5 in 2008, and 5.8 in 2009 respectively. Growth in real personal income will remain weak in 2007, but it will pick up in 2008 and 2009.

4. Fuel Price

Fuel price is one of the most important variables in projecting future VMT and VFC, for the following reasons:

- (a) It significantly determines the amount of vehicular travel.
- (b) Over the past 20 years, it has had the greatest variability of any of the socioeconomic variables used to forecast VMT and VFC.
- (c) It influences the fuel economy of the new vehicles, which directly affects fuel consumption.

The fuel price variable used in the forecasting process is the price of gasoline, averaged over all grades, and full-service and self-service sales. The price includes all excise taxes but not sales taxes. Based on the forecast of Department of Energy, the fuel price is expected to continue to be high in 2007, 2008 and then gradually go down until 2016 and then pick up again through 2030.

5. Prime Lending Rate

The prime lending rate is one of the variables used to estimate new vehicles sales, which is needed to annually update the vehicle fleet. The rate increased to 8.0 percent in 2006 from 6.2 percent in 2005. The rate increases for the forecast period and generally is between 8.0 and 9.5 percent.

B. Vehicle Fuel Economy

The forecast process requires assumptions of future fuel economy. The current standard for passenger automobiles is 27.5 Miles Per Gallon (MPG). The standard for light-trucks, a classification that also includes SUVs under 8,500 pounds rose to 22.2 MPG for model-year 2007 and will get bumped up to 22.5 MPG for 2008 models. The Department of Motor Vehicles' "Vehicle Population Profile for California" was used to update the MPG model. The MPG values for light duty fleets, which meet the national Corporate Average Fuel Economy (CAFE) standards, are assumed to have the same fuel economy into the future.

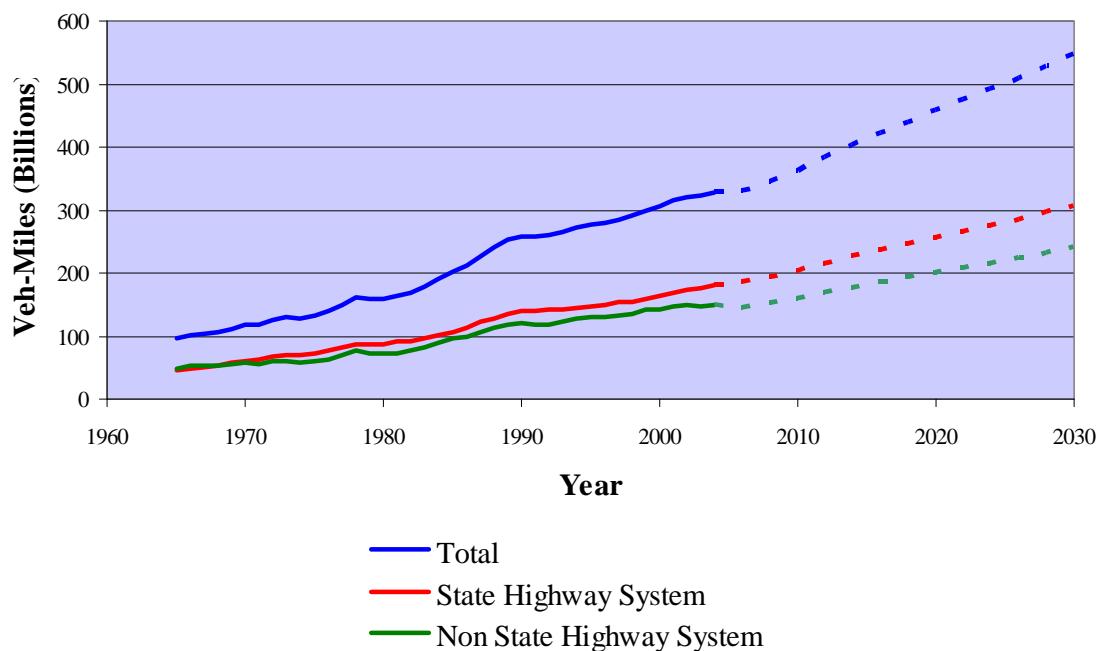
The trucking industry is aware of the significance of the fuel operating cost and the forecast for higher fuel prices. An average annual fleet MPG improvement was calculated for each vehicle and fuel type using the vehicle fuel economy values from the "Truck Inventory and Use Survey" reports for years 1977, 1982, 1987, 1992, and the "Vehicle Inventory and Use Survey" reports for years 1997 and 2002. Fuel economy of motorcycles is assumed to be a constant on-road value of 50 MPG.

IV. FORECAST RESULTS

A. Vehicle Miles of Travel

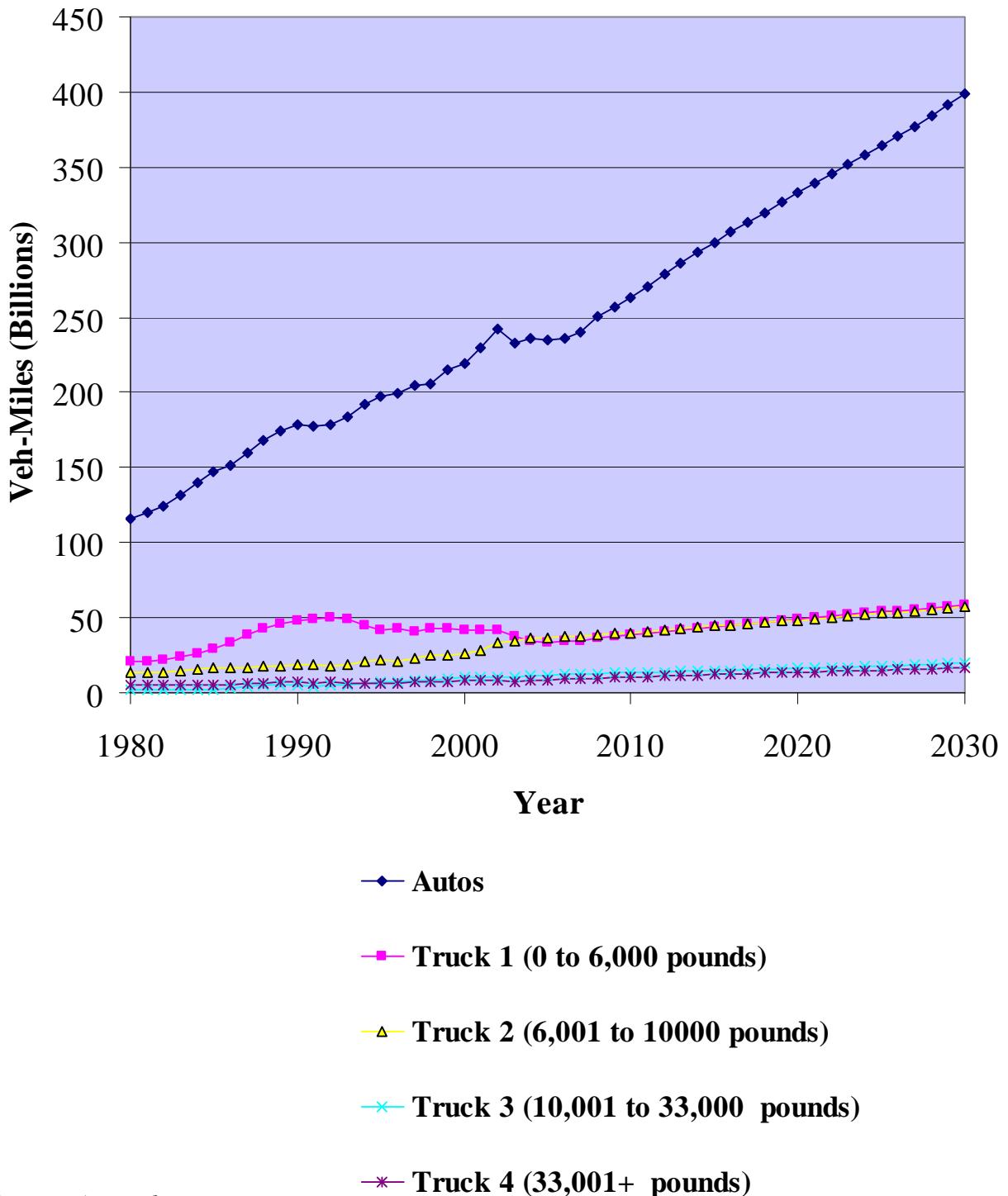
Vehicle miles of travel forecast by road system are illustrated in Figure-5. The 2007 VMT estimate of 335.221 billion is based on the 2006 on-road fuel consumption estimate from the Board of Equalization's sales data, and the 2006 on-road vehicle fleet fuel economy from the MVSTAFF Stratified Rate Model. Statewide VMT in 2007 is expected to increase by about 1.6 percent. The long-term forecast is for VMT to continue to grow, but at a slower rate. The VMT forecasts by body type are illustrated in Figure-6.

**Figure-5
Vehicle Miles Traveled by Road System**



Source: Appendix B

Figure-6
Vehicle Miles Traveled by Body Type

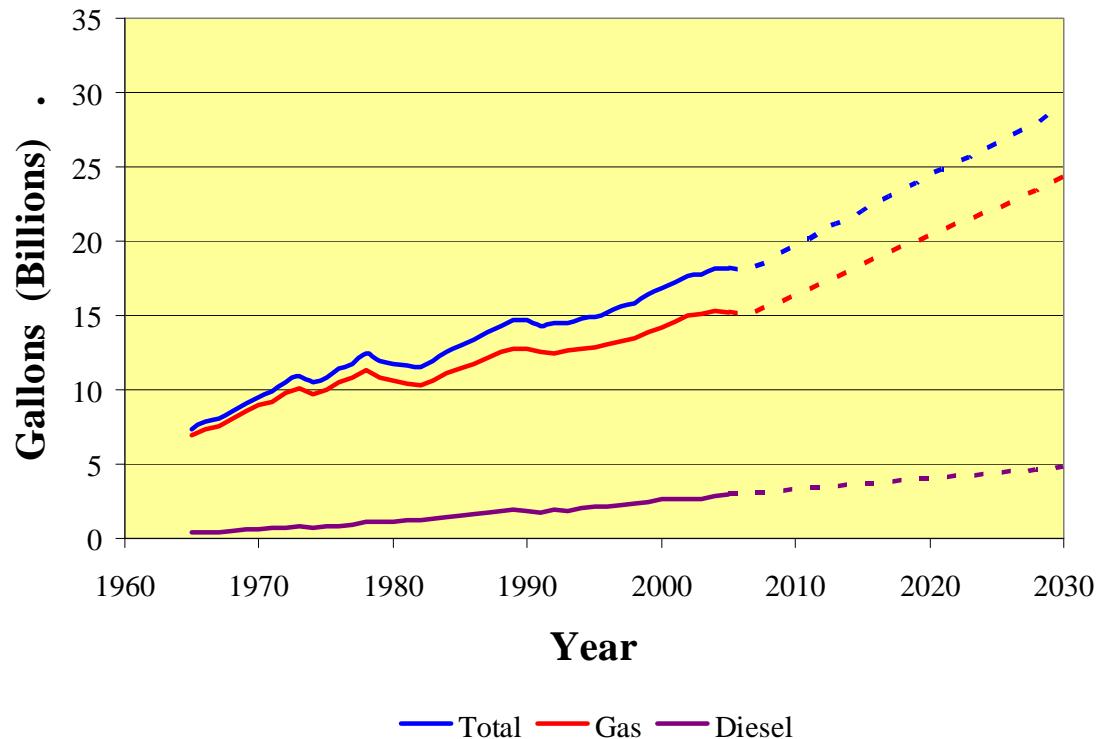


B. Vehicle Fuel Consumption

The Statewide fuel consumption forecast is given in Figure-7. The values represent total gasoline and diesel fuel usage on all public roads for years 1965 to 2030. Fuel consumption is expected to increase slightly about 1 percent in 2007 compared to 2006.

Vehicle Fuel Consumption by body type and fuel type are provided in Appendix D. Total fuel consumption is expected to increase for autos and all types of trucks. Diesel fuel consumption for autos and light trucks is expected to decrease because of the projected decline in the number of both body types.

**Figure-7
Vehicle Fuel Consumption**



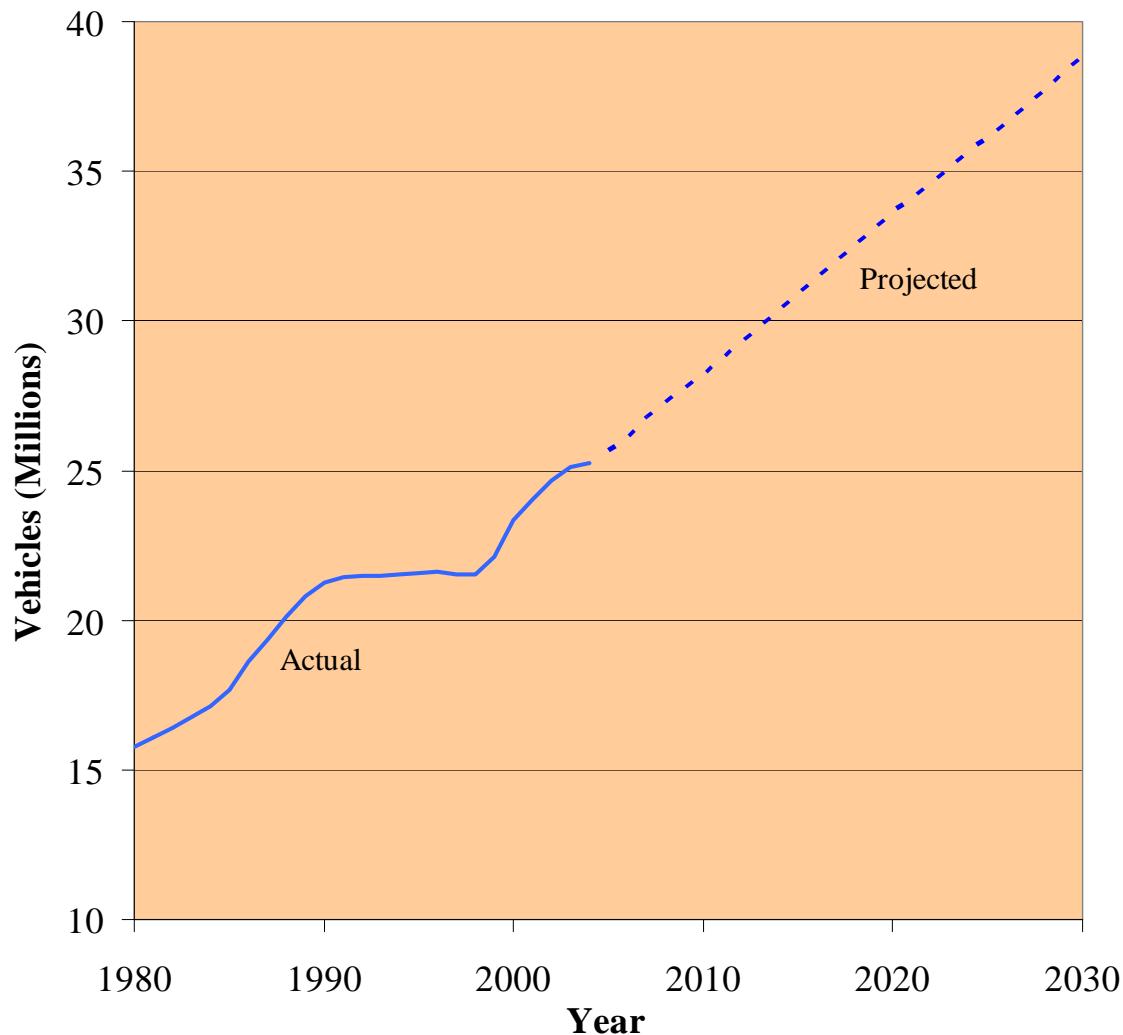
Source: Appendix D

C. Registered Vehicles

The forecast of the total number of registered vehicles is shown in Figure-8. Total vehicles are expected to increase by 2.7 percent in 2007. The long-term forecast is for total vehicles to continue to increase at an annual average rate of 2 percent.

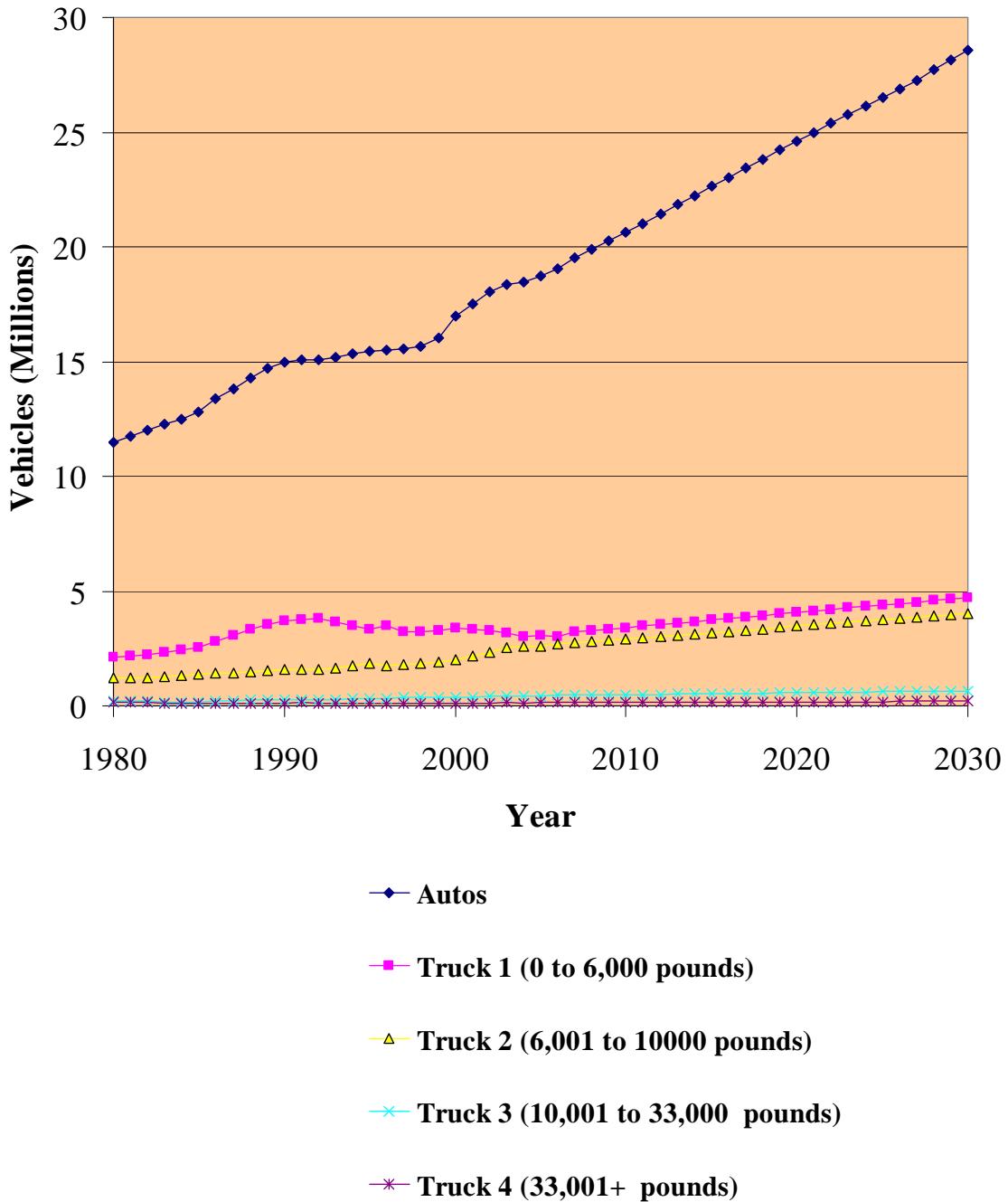
The forecast of registered vehicles by body type are shown in Figure-9. Motorcycles are included in a detailed summary of registered vehicles by body type and fuel type in Appendix D.

**Figure-8
Registered Vehicles**



Source: Appendix D

Figure-9
Registered Vehicles by Body Type



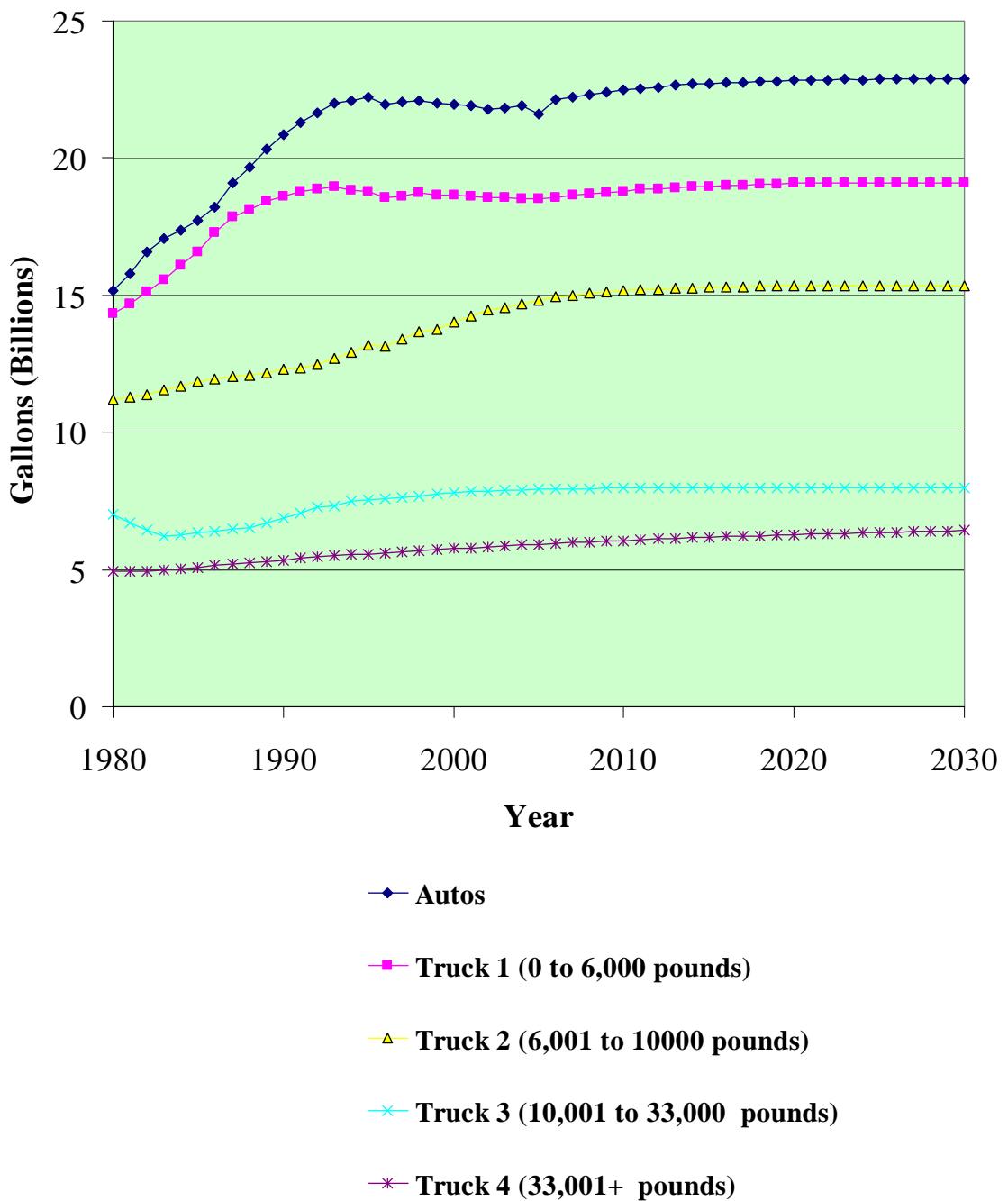
Source: Appendix D

D. Vehicle Fuel Economy

As can be seen from Figure-10, the vehicle fuel economy (VFE) by body type is expected to gradually improve throughout the forecast period. New cars with improved fuel economy will replace the older less fuel-efficient vehicles over time.

VFE by body type and fuel type forecast is listed in Appendix-D. VFE is projected to continuously improve for all strata of vehicles. The greatest improvements are being projected for heavy trucks. Fuel economy of year 2030 automobiles will be 4.4 percent higher than it was in 2006, and the total vehicle fuel economy will be 3.4 percent higher than it was in 2006.

Figure-10
Total Vehicle Fuel Economy by Body Type



Source: Appendix D

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1. UCLA, "The UCLA Anderson Forecast for the Nation and California," September 2007.
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APPENDIX A

MVSTAFF PROCESS OVERVIEW

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APPENDIX A

MVSTAFF PROCESS OVERVIEW

The MVSTAFF process is a recursive procedure, which estimates, for each year of the forecast period, the following:

- The motor vehicle stock (average number of currently registered vehicles) by six body types, two fuel types, and 25 model years or age groups.
- The fuel economy of the total fleet and each model year.
- The vehicle travel and fuel consumption for the total fleet and each model year.

The process consists of four major parts, which are outlined in Figure-11 and briefly described below.

1. Inventories

- The base year estimates and future year projections of the socioeconomic variables are assumed to be the causative factors for acquiring vehicles and generating travel, base year fuel consumption, and explicit assumptions about new vehicle fuel economy.
- The base year vehicle stock is stratified by vehicle type and model year, and derived estimates of the on-road fuel economy for each stratum of vehicles in the base year fleet.

2. The Stratified Rate Model

- When applied to the base year inventory, this model estimates base year vehicle travel, fuel consumption and fuel economy for each vehicle type and the total fleet.
- When applied in the forecasting mode, the Stratified Rate Model first updates the composition and fuel economy of the fleet by one year and then estimates the next year's stratified fleet, vehicle travel, fuel consumption and fuel economy.
- Imbedded in the Stratified Rate Model are sub-models, which forecast the total number of vehicles by vehicle type, new vehicles, in-migration vehicles, and scrap value of old vehicles and the fuel economy of new vehicles under explicit socioeconomic assumptions.

3. The Statewide Aggregate VMT and VFC Model

- The Statewide Aggregate model accepts the vehicle fleet fuel economy from the Stratified Rate Model and socioeconomic data from the inventory. It estimates next year's statewide total VMT and VFC without regard to vehicle body type. Because the Statewide Aggregate Model is more directly linked to socioeconomic variables, the VMT forecasts from the model are used as control totals for the forecast years.

4. Comparison/Adjustment Model

- The Comparison/Adjustment Model compares and adjusts the total VMT and VFC from the Stratified Rate Model to match that from the Aggregate Model. As part of the comparison/adjustment process, statewide total diesel fuel is forecasted with a Diesel Fuel Consumption Model, and gasoline fuel is computed as the difference between total fuel and diesel fuel. Following the comparison/adjustment step, future year VMT, VFC, and VFE for each vehicle type are calculated.

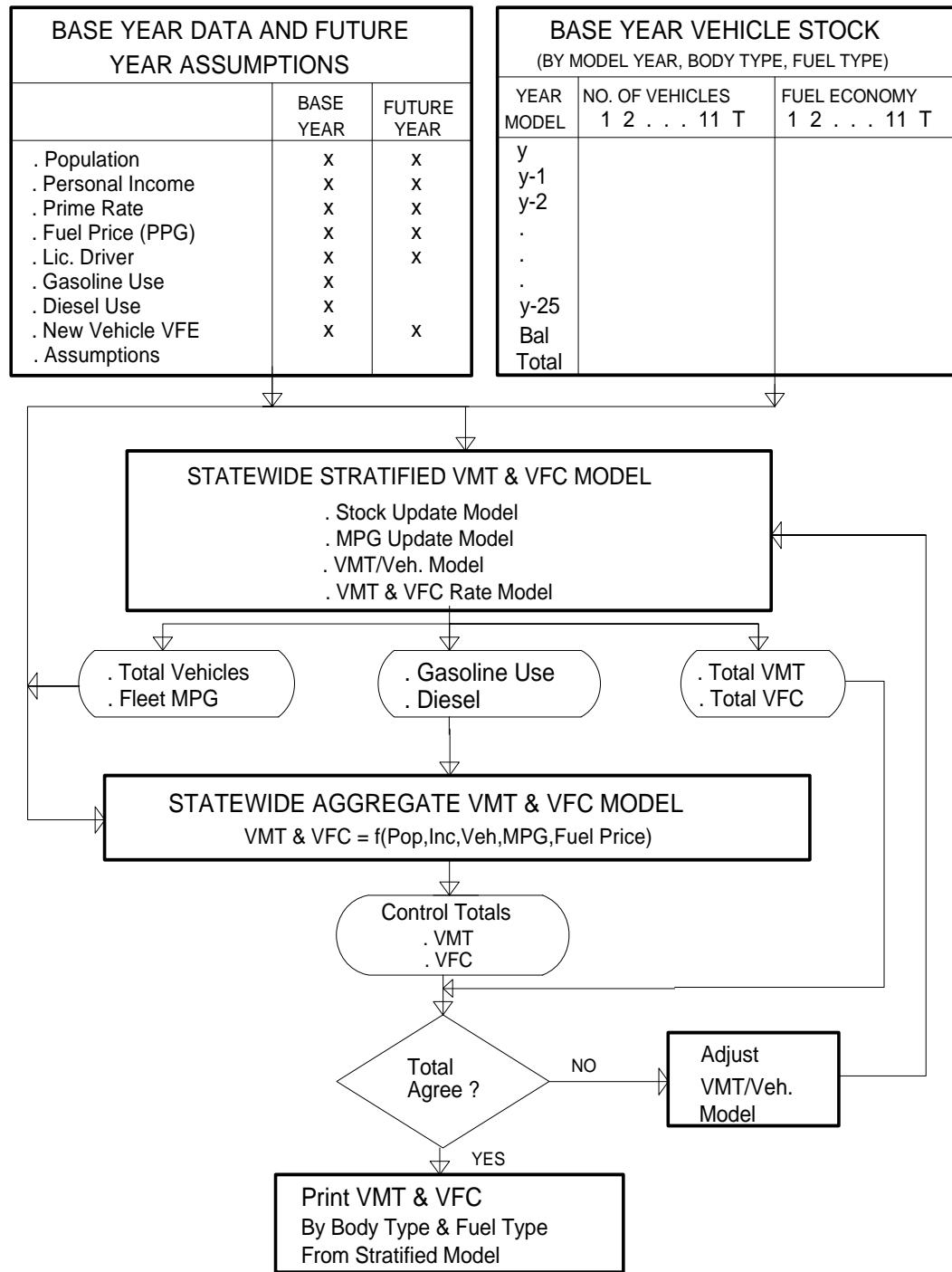
The above sequence produces the “next year” forecast. The process is then recursively applied to produce forecasts for each succeeding year in the forecast period.

Statewide VMT from the above process is then distributed to the 58 counties and two major road systems, which are State Highways and non-State Highways as follows:

- For the base year, county VMT data on the State Highways prior to 2006 used to be derived from the Department’s Division of Traffic Operations’ annual Traffic Accident Surveillance and Analysis System (TASAS) file. For the sake of consistency, county VMT on State Highways for this report was obtained from the Department’s Division of Transportation System Information’s Highway Performance Monitoring System (HPMS). HPMS will be the source of VMT data for our forecasting model.
- County VMT on non-State Highways is calculated as: Statewide total VMT from HPMS minus State Highway VMT from HPMS. Statewide VMT is then allocated to each county on the basis of the relative distribution of the quantity, “county automobile registration multiplied by the proportion of local road mileage to the total system mileage.”
- For future years, the Statewide VMT from MVSTAFF is distributed by applying county-specific, annualized growth rates to the base year county estimates described above. The county-specific growth rates are calculated from county population estimates recently published by the Department of Finance. The annualized rates are normalized so that the sum of counties’ VMT equals the MVSTAFF Statewide VMT.

Statewide VFC is distributed to the 58 counties and the two fuel types, gasoline and diesel, using estimates of county VMT, and statewide estimates of VFE.

Figure-11
MOTOR VEHICLE STOCK, TRAVEL
AND FUEL FORECASTING PROCESS



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APPENDIX B

VEHICLE MILES TRAVELED BY COUNTY AND ROAD SYSTEM

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TABLE 2 - 1990 ESTIMATED VMT BY COUNTY AND ROAD SYSTEM (MILLIONS)

COUNTY	STATE HWY	NON-STATE HWY	TOTAL
ALAMEDA	7152.00	4279.34	11431.34
ALPINE	41.00	7.26	48.26
AMADOR	223.00	61.62	284.62
BUTTE	540.00	915.46	1455.46
CALAVERAS	215.00	89.56	304.56
COLUSA	347.00	102.24	449.24
CONTRA COSTA	3445.00	3246.37	6691.37
DEL NORTE	150.00	61.12	211.12
EL DORADO	757.00	474.89	1231.89
FRESNO	2066.00	3172.68	5238.68
GLENN	290.00	91.58	381.58
HUMBOLDT	661.00	408.30	1069.30
IMPERIAL	800.00	452.90	1252.90
INYO	382.00	65.50	447.50
KERN	3275.00	2022.72	5297.72
KINGS	489.00	417.38	906.38
LAKE	256.00	120.89	376.89
LASSEN	265.00	200.68	465.68
LOS ANGELES	34243.00	37622.04	71865.04
MADERA	655.00	281.27	936.27
MARIN	1409.00	1082.73	2491.73
MARIPOSA	105.00	103.37	208.37
MENDOCINO	619.00	346.64	965.64
MERCED	1289.00	470.88	1759.88
MODOC	83.00	60.08	143.08
MONO	276.00	24.40	300.40
MONTEREY	1710.00	1372.50	3082.50
NAPA	531.00	356.07	887.07
NEVADA	565.00	308.77	873.77
ORANGE	11304.00	11466.12	22770.12
PLACER	1295.00	702.97	1997.97
PLUMAS	160.00	99.83	259.83
RIVERSIDE	7170.00	4289.73	11459.73
SACRAMENTO	3771.00	5032.58	8803.58
SAN BENITO	255.00	94.00	349.00
SAN BERNARDINO	8593.00	4624.41	13217.41
SAN DIEGO	12088.00	9415.59	21503.59
SAN FRANCISCO	1441.00	2191.84	3632.84
SAN JOAQUIN	2415.00	1931.91	4346.91
SAN LUIS OBISPO	1482.00	698.93	2180.93
SAN MATEO	4212.00	2003.60	6215.60
SANTA BARBARA	1963.00	1055.18	3018.18
SANTA CLARA	5915.00	7116.81	13031.81
SANTA CRUZ	892.00	846.48	1738.48
SHASTA	973.00	614.11	1587.11
SIERRA	60.00	29.92	89.92
SISKIYOU	570.00	199.75	769.75
SOLANO	2381.00	970.85	3351.85
SONOMA	1605.00	1426.00	3031.00
STANISLAUS	1268.00	1509.91	2777.91
SUTTER	320.00	275.18	595.18
TEHAMA	516.00	215.30	731.30
TRINITY	117.00	25.27	142.27
TULARE	1173.00	1300.11	2473.11
TUOLUMNE	291.00	190.49	481.49
VENTURA	2931.00	2464.49	5395.49
YOLO	979.00	533.31	1512.31
YUBA	230.00	250.14	480.14
TOTAL	139209.00	119794.00	259003.00

TABLE 2 -1995 ESTIMATED VMT BY COUNTY AND ROAD SYSTEM (MILLIONS)

COUNTY	STATE HWY	NON-STATE HWY	TOTAL
ALAMEDA	7446.09	4978.72	12424.81
ALPINE	42.03	8.26	50.29
AMADOR	245.67	84.15	329.82
BUTTE	607.92	981.74	1589.66
CALAVERAS	250.21	115.48	365.69
COLUSA	392.99	109.17	502.16
CONTRA COSTA	3643.81	3466.37	7110.18
DEL NORTE	157.38	67.82	225.20
EL DORADO	802.62	660.85	1463.47
FRESNO	2349.32	3697.81	6047.13
GLENN	322.62	120.54	443.16
HUMBOLDT	686.71	442.61	1129.31
IMPERIAL	880.31	502.49	1382.80
INYO	373.18	72.67	445.85
KERN	3692.82	2365.44	6058.26
KINGS	517.07	450.22	967.30
LAKE	298.37	159.67	458.04
LASSEN	313.74	243.39	557.12
LOS ANGELES	35077.90	38915.50	73993.39
MADERA	778.42	345.04	1123.45
MARIN	1433.79	1123.36	2557.15
MARIPOSA	125.36	114.46	239.82
MENDOCINO	646.97	419.62	1066.59
MERCED	1349.18	740.42	2089.60
MODOC	92.55	68.09	160.64
MONO	251.33	26.73	278.06
MONTEREY	1803.91	1421.39	3225.30
NAPA	536.26	373.58	909.84
NEVADA	634.53	344.08	978.61
ORANGE	11224.33	11905.61	23129.94
PLACER	1489.99	1039.48	2529.47
PLUMAS	180.79	109.29	290.08
RIVERSIDE	7380.95	4928.49	12309.44
SACRAMENTO	4193.16	5100.00	9293.17
SAN BENITO	285.83	119.00	404.83
SAN BERNARDINO	9716.70	5973.94	15690.64
SAN DIEGO	12603.49	10450.81	23054.29
SAN FRANCISCO	1503.31	2221.68	3725.00
SAN JOAQUIN	2818.12	2100.81	4918.93
SAN LUIS OBISPO	1557.01	767.08	2324.08
SAN MATEO	4271.22	2162.86	6434.08
SANTA BARBARA	2016.74	1165.38	3182.11
SANTA CLARA	6202.18	7372.17	13574.35
SANTA CRUZ	964.58	901.87	1866.45
SHASTA	1076.58	674.75	1751.32
SIERRA	57.84	28.71	86.54
SISKIYOU	579.60	279.89	859.49
SOLANO	2612.95	1109.65	3722.60
SONOMA	1752.95	1604.53	3357.48
STANISLAUS	1373.18	2049.39	3422.57
SUTTER	370.76	303.94	674.70
TEHAMA	553.25	235.27	788.52
TRINITY	113.96	31.78	145.74
TULARE	1341.24	1462.09	2803.33
TUOLUMNE	293.84	210.76	504.60
VENTURA	3117.04	2664.82	5781.85
YOLO	1063.66	563.46	1627.12
YUBA	246.73	295.85	542.58
TOTAL	146715.02	130252.97	276968.00

TABLE 2 - 2000 ESTIMATED VMT BY COUNTY AND ROAD SYSTEM (MILLIONS)

COUNTY	STATE HWY	NON-STATE HWY	TOTAL
ALAMEDA	8532.97	5493.26	14026.23
ALPINE	44.50	12.42	56.92
AMADOR	261.41	106.56	367.96
BUTTE	642.61	1357.71	2000.32
CALAVERAS	243.50	142.45	385.95
COLUSA	406.61	116.19	522.80
CONTRA COSTA	4220.38	3731.08	7951.46
DEL NORTE	153.90	87.40	241.30
EL DORADO	845.42	772.74	1618.15
FRESNO	2709.15	4116.97	6826.12
GLENN	308.51	130.73	439.23
HUMBOLDT	702.81	509.31	1212.12
IMPERIAL	1105.72	537.66	1643.38
INYO	404.91	115.70	520.61
KERN	4192.58	2823.80	7016.38
KINGS	649.41	459.34	1108.75
LAKE	308.41	184.27	492.68
LASSEN	295.61	284.16	579.76
LOS ANGELES	37403.34	41684.07	79087.42
MADERA	899.12	421.76	1320.88
MARIN	1552.53	1225.94	2778.47
MARIPOSA	122.00	139.32	261.33
MENDOCINO	689.41	449.63	1139.05
MERCED	1485.53	729.63	2215.16
MODOC	80.50	108.53	189.03
MONO	237.40	56.44	293.84
MONTEREY	2038.84	1544.55	3583.39
NAPA	675.51	473.89	1149.40
NEVADA	699.61	385.49	1085.10
ORANGE	12808.05	13008.40	25816.45
PLACER	1721.23	1188.51	2909.75
PLUMAS	176.20	178.07	354.27
RIVERSIDE	8394.67	5709.84	14104.51
SACRAMENTO	4959.70	5443.63	10403.33
SAN BENITO	347.11	185.87	532.97
SAN BERNARDINO	10485.91	6687.92	17173.83
SAN DIEGO	14770.09	11364.97	26135.06
SAN FRANCISCO	1562.73	2288.85	3851.58
SAN JOAQUIN	3116.56	2354.44	5471.00
SAN LUIS OBISPO	1734.24	896.26	2630.49
SAN MATEO	4910.60	2475.69	7386.29
SANTA BARBARA	2221.04	1345.26	3566.31
SANTA CLARA	7670.65	7736.80	15407.45
SANTA CRUZ	1011.82	1025.19	2037.01
SHASTA	1070.02	829.13	1899.15
SIERRA	65.80	44.72	110.53
SISKIYOU	579.41	301.58	880.99
SOLANO	2929.86	1337.42	4267.28
SONOMA	1898.84	1764.11	3662.94
STANISLAUS	1389.73	1995.87	3385.59
SUTTER	393.71	350.79	744.50
TEHAMA	560.41	273.79	834.20
TRINITY	110.60	72.92	183.53
TULARE	1510.93	1566.26	3077.19
TUOLUMNE	300.71	266.18	566.89
VENTURA	3482.67	2939.11	6421.78
YOLO	1182.92	657.31	1840.24
YUBA	278.61	324.13	602.74
TOTAL	163557.00	142814.00	306371.00

TABLE 2 - 2005 ESTIMATED VMT BY COUNTY AND ROAD SYSTEM (MILLIONS)

COUNTY	STATE HWY	NON-STATE HWY	TOTAL
ALAMEDA	8880.00	5439.89	14319.89
ALPINE	52.10	13.31	65.41
AMADOR	323.70	81.52	405.22
BUTTE	701.20	1096.91	1798.11
CALAVERAS	295.50	125.15	420.65
COLUSA	492.3	126.03	618.33
CONTRA COSTA	4760.30	3774.26	8534.56
DEL NORTE	162.20	110.59	272.79
EL DORADO	892.30	799.76	1692.06
FRESNO	3453.50	4515.26	7968.76
GLENN	359.50	146.64	506.14
HUMBOLDT	728.30	511.46	1239.76
IMPERIAL	1276.90	630.72	1907.62
INYO	407.10	145.50	552.60
KERN	4801.20	3324.68	8125.88
KINGS	777.00	568.70	1345.70
LAKE	353.40	195.71	549.11
LASSEN	294.40	288.71	583.11
LOS ANGELES	39906.10	39579.02	79485.12
MADERA	1071.90	416.81	1488.71
MARIN	1592.40	1337.79	2930.19
MARIPOSA	133.40	142.17	275.57
MENDOCINO	717.60	445.61	1163.21
MERCED	1799.30	810.37	2609.67
MODOC	85.70	115.47	201.17
MONO	244.50	57.52	302.02
MONTEREY	2018.40	1586.30	3604.70
NAPA	711.20	443.91	1155.11
NEVADA	676.00	404.76	1080.76
ORANGE	13948.60	12174.05	26122.65
PLACER	1872.20	1607.68	3479.88
PLUMAS	174.30	176.33	350.63
RIVERSIDE	11295.90	7665.07	18960.97
SACRAMENTO	5591.70	6141.25	11732.95
SAN BENITO	355.40	172.05	527.45
SAN BERNARDINO	12877.40	8222.78	21100.18
SAN DIEGO	16405.90	12069.59	28475.49
SAN FRANCISCO	1316.20	2004.16	3320.36
SAN JOAQUIN	4089.50	2483.59	6573.09
SAN LUIS OBISPO	1906.20	988.76	2894.96
SAN MATEO	4717.10	2130.45	6847.55
SANTA BARBARA	2371.00	1323.90	3694.90
SANTA CLARA	8015.60	6894.34	14909.94
SANTA CRUZ	1053.60	1007.74	2061.34
SHASTA	1170.50	774.02	1944.52
SIERRA	62.20	49.51	111.71
SISKIYOU	594.00	303.43	897.43
SOLANO	3282.30	1467.80	4750.10
SONOMA	2122.20	1768.02	3890.22
STANISLAUS	1913.10	2211.93	4125.03
SUTTER	496.20	370.20	866.40
TEHAMA	630.70	266.83	897.53
TRINITY	120.70	60.77	181.47
TULARE	1772.90	1743.43	3516.33
TUOLUMNE	343.00	292.81	635.81
VENTURA	3761.00	2865.05	6626.05
YOLO	1309.10	765.02	2074.12
YUBA	336.40	338.30	674.70
TOTAL	181872.30	145573.38	327445.68

TABLE 2 - 2006 ESTIMATED VMT BY COUNTY AND ROAD SYSTEM (MILLIONS)

COUNTY	STATE HWY	NON-STATE HWY	TOTAL
ALAMEDA	9002.45	5352.16	14354.61
ALPINE	52.54	13.45	65.99
AMADOR	341.34	94.15	435.49
BUTTE	670.46	1090.92	1761.38
CALAVERAS	299.51	126.64	426.15
COLUSA	491.34	124.03	615.37
CONTRA COSTA	4700.58	3739.80	8440.38
DEL NORTE	166.42	88.00	254.42
EL DORADO	898.01	809.45	1707.46
FRESNO	3524.34	4579.06	8103.40
GLENN	357.31	149.65	506.96
HUMBOLDT	816.88	493.02	1309.90
IMPERIAL	1326.85	629.11	1955.96
INYO	426.60	112.70	539.30
KERN	5074.02	3102.08	8176.10
KINGS	788.59	563.20	1351.79
LAKE	390.77	209.51	600.28
LASSEN	295.30	228.88	524.18
LOS ANGELES	39922.92	39443.96	79366.88
MADERA	1121.26	436.55	1557.81
MARIN	1705.09	1218.87	2923.96
MARIPOSA	124.17	134.06	258.23
MENDOCINO	730.53	432.19	1162.72
MERCED	1795.46	824.86	2620.32
MODOC	82.82	122.16	204.98
MONO	260.35	57.67	318.02
MONTEREY	2123.54	1494.83	3618.37
NAPA	715.16	434.60	1149.76
NEVADA	778.18	420.82	1199.00
ORANGE	13837.17	12343.15	26180.32
PLACER	1958.54	1520.72	3479.26
PLUMAS	179.69	162.35	342.04
RIVERSIDE	11327.61	8048.49	19376.10
SACRAMENTO	5622.79	6335.40	11958.19
SAN BENITO	397.69	143.69	541.38
SAN BERNARDINO	13870.25	7818.21	21688.46
SAN DIEGO	17082.48	11246.24	28328.72
SAN FRANCISCO	1478.21	1968.38	3446.59
SAN JOAQUIN	4226.80	2497.14	6723.94
SAN LUIS OBISPO	1955.34	983.73	2939.07
SAN MATEO	4501.05	2167.19	6668.24
SANTA BARBARA	2368.97	1321.27	3690.24
SANTA CLARA	8099.18	7296.87	15396.05
SANTA CRUZ	1051.95	971.40	2023.35
SHASTA	1203.03	780.76	1983.79
SIERRA	63.82	45.86	109.68
SISKIYOU	620.20	310.60	930.80
SOLANO	3218.75	1415.88	4634.63
SONOMA	2062.56	1812.29	3874.85
STANISLAUS	1910.11	2198.98	4109.09
SUTTER	515.25	373.16	888.41
TEHAMA	645.60	317.79	963.39
TRINITY	121.95	55.49	177.44
TULARE	1820.93	1734.21	3555.14
TUOLUMNE	348.03	299.17	647.20
VENTURA	3795.36	2996.95	6792.31
YOLO	1419.84	706.10	2125.94
YUBA	347.91	343.34	691.25
TOTAL	185033.83	144741.23	329775.06

TABLE 2 - 2007 PROJECTED VMT BY COUNTY AND ROAD SYSTEM (MILLIONS)

COUNTY	STATE HWY	NON-STATE HWY	TOTAL
ALAMEDA	9151.12	5440.55	14591.66
ALPINE	53.41	13.67	67.08
AMADOR	346.98	95.70	442.68
BUTTE	681.53	1108.94	1790.47
CALAVERAS	304.46	128.73	433.19
COLUSA	499.45	126.08	625.53
CONTRA COSTA	4778.21	3801.56	8579.77
DEL NORTE	169.17	89.45	258.62
EL DORADO	912.84	822.82	1735.66
FRESNO	3582.54	4654.68	8237.22
GLENN	363.21	152.12	515.33
HUMBOLDT	830.37	501.16	1331.53
IMPERIAL	1348.76	639.50	1988.26
INYO	433.64	114.56	548.21
KERN	5157.81	3153.31	8311.12
KINGS	801.61	572.50	1374.11
LAKE	397.22	212.97	610.19
LASSEN	300.18	232.66	532.84
LOS ANGELES	40582.21	40095.34	80677.55
MADERA	1139.78	443.76	1583.54
MARIN	1733.25	1239.00	2972.25
MARIPOSA	126.22	136.27	262.49
MENDOCINO	742.59	439.33	1181.92
MERCED	1825.11	838.48	2663.59
MODOC	84.19	124.18	208.37
MONO	264.65	58.62	323.27
MONTEREY	2158.61	1519.52	3678.12
NAPA	726.97	441.78	1168.75
NEVADA	791.03	427.77	1218.80
ORANGE	14065.68	12546.99	26612.66
PLACER	1990.88	1545.83	3536.72
PLUMAS	182.66	165.03	347.69
RIVERSIDE	11514.68	8181.40	19696.08
SACRAMENTO	5715.65	6440.02	12155.67
SAN BENITO	404.26	146.06	550.32
SAN BERNARDINO	14099.30	7947.32	22046.63
SAN DIEGO	17364.58	11431.96	28796.54
SAN FRANCISCO	1502.62	2000.89	3503.51
SAN JOAQUIN	4296.60	2538.38	6834.98
SAN LUIS OBISPO	1987.63	999.98	2987.61
SAN MATEO	4575.38	2202.98	6778.36
SANTA BARBARA	2408.09	1343.09	3751.18
SANTA CLARA	8232.93	7417.37	15650.30
SANTA CRUZ	1069.32	987.44	2056.76
SHASTA	1222.90	793.65	2016.55
SIERRA	64.87	46.62	111.49
SISKIYOU	630.44	315.73	946.17
SOLANO	3271.90	1439.26	4711.17
SONOMA	2096.62	1842.22	3938.84
STANISLAUS	1941.65	2235.29	4176.95
SUTTER	523.76	379.32	903.08
TEHAMA	656.26	323.04	979.30
TRINITY	123.96	56.41	180.37
TULARE	1851.00	1762.85	3613.85
TUOLUMNE	353.78	304.11	657.89
VENTURA	3858.04	3046.44	6904.48
YOLO	1443.29	717.76	2161.05
YUBA	353.66	349.01	702.67
TOTAL	188089.50	147131.50	335221.00

TABLE 2 - 2010 PROJECTED VMT BY COUNTY AND ROAD SYSTEM (MILLIONS)

COUNTY	STATE HWY	NON-STATE HWY	TOTAL
ALAMEDA	9885.18	5876.96	15762.14
ALPINE	57.69	14.77	72.46
AMADOR	374.81	103.38	478.19
BUTTE	736.20	1197.89	1934.09
CALAVERAS	328.88	139.06	467.94
COLUSA	539.52	136.19	675.71
CONTRA COSTA	5161.49	4106.50	9268.00
DEL NORTE	182.74	96.63	279.37
EL DORADO	986.06	888.82	1874.88
FRESNO	3869.92	5028.06	8897.98
GLENN	392.35	164.32	556.67
HUMBOLDT	896.98	541.36	1438.34
IMPERIAL	1456.95	690.80	2147.75
INYO	468.43	123.75	592.18
KERN	5571.55	3406.25	8977.80
KINGS	865.91	618.42	1484.34
LAKE	429.09	230.05	659.14
LASSEN	324.26	251.32	575.58
LOS ANGELES	43837.54	43311.62	87149.16
MADERA	1231.20	479.36	1710.56
MARIN	1872.28	1338.39	3210.67
MARIPOSA	136.35	147.21	283.55
MENDOCINO	802.16	474.57	1276.73
MERCED	1971.51	905.74	2877.25
MODOC	90.94	134.14	225.08
MONO	285.88	63.32	349.20
MONTEREY	2331.76	1641.40	3973.17
NAPA	785.28	477.21	1262.50
NEVADA	854.48	462.08	1316.57
ORANGE	15193.97	13553.45	28747.42
PLACER	2150.58	1669.83	3820.42
PLUMAS	197.31	178.27	375.58
RIVERSIDE	12438.33	8837.68	21276.01
SACRAMENTO	6174.13	6956.61	13130.74
SAN BENITO	436.69	157.78	594.46
SAN BERNARDINO	15230.29	8584.82	23815.11
SAN DIEGO	18757.49	12348.98	31106.48
SAN FRANCISCO	1623.16	2161.39	3784.54
SAN JOAQUIN	4641.26	2742.00	7383.25
SAN LUIS OBISPO	2147.07	1080.19	3227.26
SAN MATEO	4942.40	2379.69	7322.09
SANTA BARBARA	2601.26	1450.83	4052.08
SANTA CLARA	8893.34	8012.36	16905.70
SANTA CRUZ	1155.10	1066.65	2221.75
SHASTA	1320.99	857.32	2178.31
SIERRA	70.08	50.36	120.43
SISKIYOU	681.01	341.06	1022.07
SOLANO	3534.36	1554.71	5089.08
SONOMA	2264.80	1989.99	4254.80
STANISLAUS	2097.40	2414.60	4512.00
SUTTER	565.77	409.75	975.52
TEHAMA	708.90	348.95	1057.85
TRINITY	133.91	60.93	194.84
TULARE	1999.48	1904.26	3903.74
TUOLUMNE	382.16	328.50	710.66
VENTURA	4167.51	3290.81	7458.33
YOLO	1559.06	775.34	2334.40
YUBA	382.02	377.01	759.03
TOTAL	203177.24	158933.76	362111.00

TABLE 2 - 2015 PROJECTED VMT BY COUNTY AND ROAD SYSTEM (MILLIONS)

COUNTY	STATE HWY	NON-STATE HWY	TOTAL
ALAMEDA	11254.62	6691.13	17945.75
ALPINE	65.68	16.81	82.50
AMADOR	426.73	117.70	544.44
BUTTE	838.19	1363.84	2202.03
CALAVERAS	374.44	158.32	532.76
COLUSA	614.26	155.06	769.32
CONTRA COSTA	5876.54	4675.40	10551.94
DEL NORTE	208.05	110.02	318.07
EL DORADO	1122.67	1011.95	2134.62
FRESNO	4406.04	5724.62	10130.65
GLENN	446.70	187.09	633.79
HUMBOLDT	1021.24	616.36	1637.60
IMPERIAL	1658.79	786.50	2445.29
INYO	533.32	140.89	674.22
KERN	6343.40	3878.14	10221.54
KINGS	985.87	704.10	1689.97
LAKE	488.53	261.92	750.45
LASSEN	369.18	286.14	655.32
LOS ANGELES	49910.57	49311.79	99222.36
MADERA	1401.77	545.76	1947.53
MARIN	2131.66	1523.80	3655.46
MARIPOSA	155.23	167.60	322.83
MENDOCINO	913.29	540.31	1453.60
MERCED	2244.64	1031.22	3275.85
MODOC	103.54	152.72	256.26
MONO	325.48	72.10	397.58
MONTEREY	2654.79	1868.80	4523.59
NAPA	894.07	543.33	1437.40
NEVADA	972.86	526.10	1498.96
ORANGE	17298.86	15431.08	32729.94
PLACER	2448.51	1901.16	4349.68
PLUMAS	224.64	202.97	427.61
RIVERSIDE	14161.48	10062.01	24223.48
SACRAMENTO	7029.46	7920.35	14949.81
SAN BENITO	497.18	179.64	676.82
SAN BERNARDINO	17340.22	9774.12	27114.34
SAN DIEGO	21356.06	14059.75	35415.81
SAN FRANCISCO	1848.02	2460.82	4308.84
SAN JOAQUIN	5284.23	3121.86	8406.09
SAN LUIS OBISPO	2444.51	1229.83	3674.35
SAN MATEO	5627.09	2709.36	8336.46
SANTA BARBARA	2961.62	1651.82	4613.44
SANTA CLARA	10125.38	9122.35	19247.73
SANTA CRUZ	1315.12	1214.42	2529.54
SHASTA	1504.00	976.09	2480.08
SIERRA	79.79	57.33	137.12
SISKIYOU	775.36	388.30	1163.66
SOLANO	4024.00	1770.10	5794.09
SONOMA	2578.56	2265.68	4844.23
STANISLAUS	2387.97	2749.11	5137.07
SUTTER	644.15	466.51	1110.67
TEHAMA	807.11	397.29	1204.40
TRINITY	152.46	69.37	221.83
TULARE	2276.48	2168.06	4444.54
TUOLUMNE	435.10	374.01	809.11
VENTURA	4744.86	3746.71	8491.57
YOLO	1775.05	882.75	2657.79
YUBA	434.95	429.23	864.18
TOTAL	231324.37	180951.63	412276.00

TABLE 2 - 2020 PROJECTED VMT BY COUNTY AND ROAD SYSTEM (MILLIONS)

COUNTY	STATE HWY	NON-STATE HWY	TOTAL
ALAMEDA	12475.29	7416.84	19892.13
ALPINE	72.81	18.64	91.45
AMADOR	473.02	130.47	603.49
BUTTE	929.10	1511.76	2440.86
CALAVERAS	415.05	175.49	590.54
COLUSA	680.88	171.88	852.76
CONTRA COSTA	6513.90	5182.49	11696.39
DEL NORTE	230.62	121.95	352.57
EL DORADO	1244.43	1121.71	2366.14
FRESNO	4883.91	6345.50	11229.41
GLENN	495.15	207.38	702.53
HUMBOLDT	1132.00	683.21	1815.21
IMPERIAL	1838.70	871.80	2710.50
INYO	591.17	156.18	747.34
KERN	7031.40	4298.76	11330.16
KINGS	1092.80	780.46	1873.26
LAKE	541.52	290.33	831.85
LASSEN	409.22	317.17	726.39
LOS ANGELES	55323.82	54660.09	109983.91
MADERA	1553.80	604.96	2158.76
MARIN	2362.86	1689.07	4051.92
MARIPOSA	172.07	185.78	357.85
MENDOCINO	1012.34	598.91	1611.26
MERCED	2488.09	1143.06	3631.15
MODOC	114.77	169.29	284.05
MONO	360.78	79.92	440.70
MONTEREY	2942.73	2071.48	5014.21
NAPA	991.04	602.25	1593.30
NEVADA	1078.38	583.16	1661.53
ORANGE	19175.08	17104.72	36279.79
PLACER	2714.08	2107.36	4821.44
PLUMAS	249.01	224.98	473.99
RIVERSIDE	15697.41	11153.32	26850.74
SACRAMENTO	7791.87	8779.38	16571.25
SAN BENITO	551.11	199.12	750.23
SAN BERNARDINO	19220.92	10834.21	30055.13
SAN DIEGO	23672.32	15584.65	39256.97
SAN FRANCISCO	2048.45	2727.71	4776.17
SAN JOAQUIN	5857.35	3460.45	9317.81
SAN LUIS OBISPO	2709.64	1363.22	4072.86
SAN MATEO	6237.40	3003.22	9240.62
SANTA BARBARA	3282.84	1830.97	5113.81
SANTA CLARA	11223.57	10111.75	21335.32
SANTA CRUZ	1457.76	1346.13	2803.89
SHASTA	1667.12	1081.95	2749.07
SIERRA	88.44	63.55	151.99
SISKIYOU	859.45	430.42	1289.87
SOLANO	4460.43	1962.08	6422.51
SONOMA	2858.23	2511.41	5369.63
STANISLAUS	2646.97	3047.27	5694.24
SUTTER	714.02	517.11	1231.13
TEHAMA	894.65	440.38	1335.03
TRINITY	168.99	76.90	245.89
TULARE	2523.38	2403.21	4926.59
TUOLUMNE	482.29	414.58	896.87
VENTURA	5259.48	4153.07	9412.55
YOLO	1967.57	978.49	2946.05
YUBA	482.12	475.79	957.91
TOTAL	256413.55	200577.45	456991.00

TABLE 2 - 2025 PROJECTED VMT BY COUNTY AND ROAD SYSTEM (MILLIONS)

COUNTY	STATE HWY	NON-STATE HWY	TOTAL
ALAMEDA	13640.26	8109.44	21749.71
ALPINE	79.61	20.38	99.99
AMADOR	517.19	142.65	659.84
BUTTE	1015.86	1652.93	2668.79
CALAVERAS	453.81	191.88	645.69
COLUSA	744.46	187.93	932.39
CONTRA COSTA	7122.19	5666.44	12788.63
DEL NORTE	252.15	133.34	385.49
EL DORADO	1360.64	1226.46	2587.10
FRESNO	5339.98	6938.06	12278.05
GLENN	541.39	226.74	768.13
HUMBOLDT	1237.71	747.01	1984.72
IMPERIAL	2010.41	953.21	2963.62
INYO	646.37	170.76	817.13
KERN	7688.01	4700.19	12388.20
KINGS	1194.85	853.34	2048.19
LAKE	592.08	317.44	909.53
LASSEN	447.43	346.79	794.22
LOS ANGELES	60490.10	59764.39	120254.49
MADERA	1698.90	661.45	2360.35
MARIN	2583.50	1846.80	4430.30
MARIPOSA	188.14	203.12	391.26
MENDOCINO	1106.88	654.84	1761.72
MERCED	2720.43	1249.80	3970.24
MODOC	125.49	185.09	310.58
MONO	394.48	87.38	481.86
MONTEREY	3217.53	2264.92	5482.45
NAPA	1083.59	658.49	1742.08
NEVADA	1179.08	637.61	1816.69
ORANGE	20965.70	18702.00	39667.69
PLACER	2967.53	2304.15	5271.68
PLUMAS	272.26	245.99	518.25
RIVERSIDE	17163.28	12194.85	29358.13
SACRAMENTO	8519.50	9599.22	18118.72
SAN BENITO	602.57	217.72	820.28
SAN BERNARDINO	21015.82	11845.93	32861.75
SAN DIEGO	25882.90	17039.99	42922.89
SAN FRANCISCO	2239.74	2982.43	5222.18
SAN JOAQUIN	6404.33	3783.60	10187.93
SAN LUIS OBISPO	2962.68	1490.52	4453.20
SAN MATEO	6819.87	3283.67	10103.53
SANTA BARBARA	3589.40	2001.95	5591.35
SANTA CLARA	12271.65	11056.01	23327.67
SANTA CRUZ	1593.89	1471.84	3065.72
SHASTA	1822.80	1182.99	3005.78
SIERRA	96.70	69.49	166.18
SISKIYOU	939.71	470.61	1410.32
SOLANO	4876.96	2145.30	7022.26
SONOMA	3125.13	2745.93	5871.06
STANISLAUS	2894.15	3331.83	6225.98
SUTTER	780.69	565.40	1346.09
TEHAMA	978.20	481.51	1459.70
TRINITY	184.78	84.08	268.85
TULARE	2759.02	2627.63	5386.65
TUOLUMNE	527.33	453.29	980.62
VENTURA	5750.62	4540.90	10291.52
YOLO	2151.30	1069.86	3221.17
YUBA	527.14	520.22	1047.36
TOTAL	280358.11	219307.89	499666.00

TABLE 2 - 2030 PROJECTED VMT BY COUNTY AND ROAD SYSTEM (MILLIONS)

COUNTY	STATE HWY	NON-STATE HWY	TOTAL
ALAMEDA	14927.89	8874.97	23802.86
ALPINE	87.12	22.30	109.42
AMADOR	566.01	156.12	722.13
BUTTE	1111.76	1808.97	2920.73
CALAVERAS	496.65	209.99	706.64
COLUSA	814.74	205.67	1020.41
CONTRA COSTA	7794.52	6201.35	13995.86
DEL NORTE	275.96	145.92	421.88
EL DORADO	1489.08	1342.23	2831.32
FRESNO	5844.07	7593.01	13437.08
GLENN	592.49	248.15	840.64
HUMBOLDT	1354.55	817.53	2172.08
IMPERIAL	2200.19	1043.19	3243.38
INYO	707.39	186.88	894.27
KERN	8413.76	5143.88	13557.63
KINGS	1307.64	933.90	2241.54
LAKE	647.98	347.41	995.39
LASSEN	489.67	379.53	869.20
LOS ANGELES	66200.31	65406.09	131606.40
MADERA	1859.28	723.89	2583.17
MARIN	2827.39	2021.13	4848.52
MARIPOSA	205.90	222.30	428.20
MENDOCINO	1211.37	716.66	1928.03
MERCED	2977.24	1367.79	4345.02
MODOC	137.33	202.57	339.90
MONO	431.71	95.63	527.34
MONTEREY	3521.26	2478.73	5999.99
NAPA	1185.88	720.66	1906.54
NEVADA	1290.38	697.80	1988.19
ORANGE	22944.84	20467.45	43412.29
PLACER	3247.66	2521.66	5769.32
PLUMAS	297.96	269.21	567.17
RIVERSIDE	18783.48	13346.03	32129.51
SACRAMENTO	9323.73	10505.38	19829.11
SAN BENITO	659.45	238.27	897.72
SAN BERNARDINO	22999.69	12964.18	35963.87
SAN DIEGO	28326.22	18648.55	46974.77
SAN FRANCISCO	2451.17	3263.97	5715.15
SAN JOAQUIN	7008.89	4140.77	11149.66
SAN LUIS OBISPO	3242.35	1631.22	4873.57
SAN MATEO	7463.65	3593.64	11057.30
SANTA BARBARA	3928.23	2190.93	6119.17
SANTA CLARA	13430.08	12099.69	25529.78
SANTA CRUZ	1744.35	1610.78	3355.13
SHASTA	1994.87	1294.66	3289.53
SIERRA	105.83	76.05	181.87
SISKIYOU	1028.42	515.04	1543.46
SOLANO	5337.34	2347.82	7685.16
SONOMA	3420.14	3005.14	6425.29
STANISLAUS	3167.35	3646.36	6813.71
SUTTER	854.39	618.78	1473.16
TEHAMA	1070.54	526.96	1597.50
TRINITY	202.22	92.01	294.23
TULARE	3019.47	2875.67	5895.14
TUOLUMNE	577.10	496.08	1073.19
VENTURA	6293.48	4969.55	11263.03
YOLO	2354.38	1170.86	3525.24
YUBA	576.91	569.33	1146.23
TOTAL	306823.66	240010.34	546834.00

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APPENDIX C

VEHICLE FUEL CONSUMPTION BY COUNTY AND FUEL TYPE

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TABLE 3 - 2000 ESTIMATED VFC BY COUNTY AND FUEL TYPE (MILLION GALLONS)

COUNTY	GASOLINE	DIESEL	TOTAL
ALAMEDA	653.376	99.330	752.706
ALPINE	2.650	0.408	3.059
AMADOR	17.115	2.774	19.889
BUTTE	93.391	12.767	106.159
CALAVERAS	18.011	2.522	20.532
COLUSA	23.092	12.050	35.142
CONTRA COSTA	370.883	53.103	423.986
DEL NORTE	11.149	2.315	13.464
EL DORADO	75.557	10.273	85.830
FRESNO	312.772	82.791	395.564
GLENN	19.630	8.607	28.237
HUMBOLDT	55.975	11.817	67.792
IMPERIAL	74.419	25.761	100.180
INYO	24.033	5.132	29.165
KERN	311.269	152.750	464.019
KINGS	50.008	18.711	68.718
LAKE	22.908	3.768	26.676
LASSEN	26.499	7.467	33.966
LOS ANGELES	3687.244	539.173	4226.416
MADERA	59.295	24.142	83.437
MARIN	130.150	14.896	145.046
MARIPOSA	12.286	1.104	13.390
MENDOCINO	52.947	8.813	61.759
MERCED	99.248	41.765	141.012
MODOC	8.630	2.498	11.128
MONO	13.547	3.015	16.562
MONTEREY	165.433	35.240	200.673
NAPA	53.296	9.764	63.060
NEVADA	49.821	12.489	62.310
ORANGE	1206.531	156.766	1363.297
PLACER	134.639	26.590	161.229
PLUMAS	16.343	3.567	19.910
RIVERSIDE	646.122	172.030	818.152
SACRAMENTO	483.659	79.986	563.645
SAN BENITO	24.345	6.965	31.310
SAN BERNARDINO	783.827	228.658	1012.485
SAN DIEGO	1222.122	154.059	1376.181
SAN FRANCISCO	181.247	15.156	196.403
SAN JOAQUIN	247.292	88.785	336.077
SAN LUIS OBISPO	121.548	25.156	146.704
SAN MATEO	346.404	36.871	383.275
SANTA BARBARA	165.768	27.635	193.403
SANTA CLARA	721.112	86.635	807.748
SANTA CRUZ	95.487	10.465	105.953
SHASTA	86.176	28.616	114.792
SIERRA	5.008	1.714	6.722
SISKIYOU	38.758	21.333	60.091
SOLANO	197.171	40.874	238.045
SONOMA	170.175	28.941	199.116
STANISLAUS	155.259	40.195	195.454
SUTTER	34.613	5.723	40.336
TEHAMA	37.278	16.373	53.651
TRINITY	8.432	2.073	10.505
TULARE	139.093	49.922	189.015
TUOLUMNE	26.480	3.533	30.013
VENTURA	299.855	40.762	340.617
YOLO	84.187	23.197	107.384
YUBA	27.976	4.935	32.911
TOTAL	14201.540	2632.760	16834.300

TABLE 3 - 2005 ESTIMATED VFC BY COUNTY AND FUEL TYPE (MILLION GALLONS)

COUNTY	GASOLINE	DIESEL	TOTAL
ALAMEDA	666.346	102.042	768.389
ALPINE	3.044	0.453	3.497
AMADOR	18.856	3.372	22.228
BUTTE	83.671	14.229	97.900
CALAVERAS	19.574	2.947	22.521
COLUSA	28.773	14.615	43.387
CONTRA COSTA	397.138	50.621	447.759
DEL NORTE	12.694	2.255	14.948
EL DORADO	78.736	11.988	90.724
FRESNO	370.809	99.931	470.741
GLENN	23.552	10.813	34.365
HUMBOLDT	57.689	13.376	71.065
IMPERIAL	88.767	28.292	117.059
INYO	25.714	5.741	31.455
KERN	378.121	172.580	550.700
KINGS	62.619	24.244	86.863
LAKE	25.552	5.278	30.830
LASSEN	27.134	7.893	35.027
LOS ANGELES	3698.674	608.814	4307.488
MADERA	69.274	28.281	97.555
MARIN	136.350	13.816	150.166
MARIPOSA	12.823	1.326	14.149
MENDOCINO	54.128	10.540	64.668
MERCED	121.435	47.224	168.659
MODOC	9.361	2.765	12.126
MONO	14.054	3.127	17.181
MONTEREY	167.737	38.902	206.639
NAPA	53.751	7.628	61.379
NEVADA	50.291	13.188	63.479
ORANGE	1215.563	170.525	1386.088
PLACER	161.929	35.250	197.178
PLUMAS	16.316	3.336	19.652
RIVERSIDE	882.309	223.273	1105.583
SACRAMENTO	545.968	93.338	639.306
SAN BENITO	24.544	7.532	32.076
SAN BERNARDINO	981.853	274.020	1255.873
SAN DIEGO	1325.047	181.830	1506.877
SAN FRANCISCO	154.506	14.181	168.687
SAN JOAQUIN	305.865	97.825	403.690
SAN LUIS OBISPO	134.711	27.932	162.643
SAN MATEO	318.636	32.104	350.740
SANTA BARBARA	171.935	27.703	199.638
SANTA CLARA	693.803	85.532	779.335
SANTA CRUZ	95.920	10.797	106.718
SHASTA	90.484	27.558	118.042
SIERRA	5.198	1.616	6.814
SISKIYOU	41.760	18.885	60.645
SOLANO	221.036	34.051	255.087
SONOMA	181.023	27.268	208.291
STANISLAUS	191.950	53.875	245.825
SUTTER	40.316	6.994	47.309
TEHAMA	41.765	16.282	58.046
TRINITY	8.444	1.972	10.416
TULARE	163.625	59.130	222.755
TUOLUMNE	29.586	4.344	33.930
VENTURA	308.330	44.675	353.005
YOLO	96.515	27.946	124.461
YUBA	31.396	7.946	39.342
TOTAL	15237.000	2964.000	18201.000

TABLE 3 - 2006 ESTIMATED VFC BY COUNTY AND FUEL TYPE (MILLION GALLONS)

COUNTY	GASOLINE	DIESEL	TOTAL
ALAMEDA	659.544	101.423	760.966
ALPINE	3.032	0.450	3.482
AMADOR	20.009	3.352	23.360
BUTTE	80.929	14.143	95.072
CALAVERAS	19.580	2.929	22.509
COLUSA	28.274	14.526	42.800
CONTRA COSTA	387.805	50.313	438.119
DEL NORTE	11.690	2.241	13.931
EL DORADO	78.452	11.915	90.367
FRESNO	372.323	99.325	471.647
GLENN	23.293	10.747	34.040
HUMBOLDT	60.185	13.295	73.480
IMPERIAL	89.869	28.120	117.990
INYO	24.779	5.706	30.485
KERN	375.663	171.532	547.195
KINGS	62.110	24.097	86.206
LAKE	27.580	5.246	32.826
LASSEN	24.084	7.845	31.929
LOS ANGELES	3646.628	605.117	4251.745
MADERA	71.576	28.109	99.685
MARIN	134.346	13.732	148.078
MARIPOSA	11.865	1.318	13.182
MENDOCINO	53.423	10.476	63.899
MERCED	120.394	46.937	167.332
MODOC	9.418	2.748	12.167
MONO	14.612	3.108	17.720
MONTEREY	166.251	38.666	204.917
NAPA	52.827	7.582	60.409
NEVADA	55.090	13.108	68.198
ORANGE	1202.892	169.489	1372.382
PLACER	159.860	35.036	194.895
PLUMAS	15.715	3.316	19.031
RIVERSIDE	890.263	221.917	1112.181
SACRAMENTO	549.436	92.771	642.207
SAN BENITO	24.875	7.486	32.361
SAN BERNARDINO	996.508	272.356	1268.864
SAN DIEGO	1301.605	180.726	1482.330
SAN FRANCISCO	158.358	14.095	172.453
SAN JOAQUIN	308.941	97.231	406.172
SAN LUIS OBISPO	135.040	27.762	162.802
SAN MATEO	306.382	31.909	338.291
SANTA BARBARA	169.554	27.535	197.089
SANTA CLARA	707.394	85.013	792.407
SANTA CRUZ	92.966	10.732	103.698
SHASTA	91.148	27.391	118.539
SIERRA	5.039	1.606	6.645
SISKIYOU	42.767	18.770	61.537
SOLANO	212.945	33.844	246.789
SONOMA	178.036	27.102	205.138
STANISLAUS	188.798	53.548	242.346
SUTTER	40.819	6.951	47.770
TEHAMA	44.264	16.183	60.447
TRINITY	8.153	1.960	10.112
TULARE	163.346	58.771	222.117
TUOLUMNE	29.736	4.318	34.054
VENTURA	312.083	44.404	356.487
YOLO	97.679	27.777	125.456
YUBA	31.760	7.898	39.658
TOTAL	15152.000	2946.000	18098.000

TABLE 3 - 2007 PROJECTED VFC BY COUNTY AND FUEL TYPE (MILLION GALLONS)

COUNTY	GASOLINE	DIESEL	TOTAL
ALAMEDA	663.505	104.211	767.716
ALPINE	3.050	0.463	3.513
AMADOR	20.129	3.444	23.573
BUTTE	81.415	14.531	95.947
CALAVERAS	19.698	3.009	22.707
COLUSA	28.444	14.925	43.369
CONTRA COSTA	390.134	51.697	441.831
DEL NORTE	11.760	2.303	14.062
EL DORADO	78.923	12.243	91.165
FRESNO	374.559	102.055	476.614
GLENN	23.433	11.043	34.475
HUMBOLDT	60.547	13.660	74.207
IMPERIAL	90.409	28.893	119.303
INYO	24.928	5.863	30.790
KERN	377.919	176.248	554.167
KINGS	62.483	24.759	87.242
LAKE	27.746	5.390	33.136
LASSEN	24.229	8.060	32.289
LOS ANGELES	3668.529	621.754	4290.284
MADERA	72.006	28.882	100.888
MARIN	135.152	14.110	149.262
MARIPOSA	11.936	1.354	13.290
MENDOCINO	53.744	10.764	64.508
MERCED	121.118	48.228	169.345
MODOC	9.475	2.824	12.299
MONO	14.700	3.194	17.893
MONTEREY	167.250	39.729	206.978
NAPA	53.145	7.790	60.935
NEVADA	55.421	13.469	68.889
ORANGE	1210.117	174.150	1384.266
PLACER	160.820	35.999	196.819
PLUMAS	15.809	3.407	19.217
RIVERSIDE	895.610	228.019	1123.629
SACRAMENTO	552.736	95.322	648.058
SAN BENITO	25.024	7.692	32.716
SAN BERNARDINO	1002.493	279.845	1282.338
SAN DIEGO	1309.422	185.695	1495.117
SAN FRANCISCO	159.309	14.482	173.792
SAN JOAQUIN	310.796	99.905	410.701
SAN LUIS OBISPO	135.851	28.526	164.377
SAN MATEO	308.222	32.786	341.008
SANTA BARBARA	170.572	28.292	198.864
SANTA CLARA	711.643	87.350	798.993
SANTA CRUZ	93.524	11.027	104.551
SHASTA	91.696	28.144	119.839
SIERRA	5.070	1.650	6.720
SISKIYOU	43.023	19.286	62.310
SOLANO	214.224	34.775	248.999
SONOMA	179.105	27.847	206.952
STANISLAUS	189.932	55.020	244.952
SUTTER	41.064	7.142	48.207
TEHAMA	44.530	16.628	61.158
TRINITY	8.202	2.014	10.215
TULARE	164.327	60.387	224.714
TUOLUMNE	29.915	4.437	34.351
VENTURA	313.957	45.625	359.582
YOLO	98.266	28.540	126.807
YUBA	31.951	8.115	40.066
TOTAL	15243.000	3027.000	18270.000

TABLE 3 - 2010 PROJECTED VFC BY COUNTY AND FUEL TYPE (MILLION GALLONS)

COUNTY	GASOLINE	DIESEL	TOTAL
ALAMEDA	709.993	112.508	822.502
ALPINE	3.264	0.500	3.764
AMADOR	21.539	3.718	25.257
BUTTE	87.120	15.688	102.808
CALAVERAS	21.078	3.249	24.327
COLUSA	30.437	16.113	46.550
CONTRA COSTA	417.469	55.813	473.282
DEL NORTE	12.584	2.486	15.070
EL DORADO	84.453	13.217	97.670
FRESNO	400.802	110.181	510.983
GLENN	25.075	11.922	36.996
HUMBOLDT	64.789	14.748	79.537
IMPERIAL	96.744	31.194	127.937
INYO	26.674	6.329	33.004
KERN	404.398	190.280	594.678
KINGS	66.860	26.731	93.591
LAKE	29.690	5.820	35.510
LASSEN	25.926	8.702	34.629
LOS ANGELES	3925.564	671.257	4596.821
MADERA	77.051	31.181	108.232
MARIN	144.622	15.233	159.855
MARIPOSA	12.772	1.462	14.234
MENDOCINO	57.509	11.621	69.130
MERCED	129.604	52.068	181.671
MODOC	10.139	3.049	13.187
MONO	15.730	3.448	19.177
MONTEREY	178.968	42.892	221.860
NAPA	56.868	8.411	65.279
NEVADA	59.304	14.541	73.845
ORANGE	1294.904	188.015	1482.918
PLACER	172.088	38.865	210.953
PLUMAS	16.917	3.678	20.596
RIVERSIDE	958.361	246.173	1204.534
SACRAMENTO	591.463	102.911	694.374
SAN BENITO	26.777	8.304	35.082
SAN BERNARDINO	1072.733	302.125	1374.858
SAN DIEGO	1401.166	200.479	1601.646
SAN FRANCISCO	170.471	15.635	186.107
SAN JOAQUIN	332.572	107.859	440.431
SAN LUIS OBISPO	145.369	30.797	176.166
SAN MATEO	329.817	35.397	365.214
SANTA BARBARA	182.523	30.545	213.068
SANTA CLARA	761.504	94.305	855.809
SANTA CRUZ	100.077	11.905	111.982
SHASTA	98.120	30.384	128.505
SIERRA	5.425	1.782	7.206
SISKIYOU	46.038	20.822	66.860
SOLANO	229.233	37.543	266.777
SONOMA	191.654	30.064	221.718
STANISLAUS	203.240	59.401	262.640
SUTTER	43.942	7.711	51.652
TEHAMA	47.650	17.952	65.602
TRINITY	8.776	2.174	10.950
TULARE	175.841	65.194	241.035
TUOLUMNE	32.011	4.790	36.800
VENTURA	335.954	49.257	385.212
YOLO	105.151	30.813	135.964
YUBA	34.189	8.761	42.950
TOTAL	16311.000	3268.000	19579.000

TABLE 3 - 2015 PROJECTED VFC BY COUNTY AND FUEL TYPE (MILLION GALLONS)

COUNTY	GASOLINE	DIESEL	TOTAL
ALAMEDA	801.403	125.246	926.650
ALPINE	3.684	0.556	4.240
AMADOR	24.312	4.139	28.451
BUTTE	98.336	17.465	115.801
CALAVERAS	23.792	3.617	27.408
COLUSA	34.355	17.938	52.293
CONTRA COSTA	471.217	62.132	533.349
DEL NORTE	14.204	2.767	16.971
EL DORADO	95.326	14.714	110.039
FRESNO	452.404	122.655	575.060
GLENN	28.303	13.272	41.575
HUMBOLDT	73.130	16.418	89.548
IMPERIAL	109.199	34.725	143.925
INYO	30.109	7.046	37.155
KERN	456.463	211.824	668.287
KINGS	75.468	29.757	105.226
LAKE	33.512	6.478	39.991
LASSEN	29.264	9.687	38.952
LOS ANGELES	4430.971	747.256	5178.226
MADERA	86.971	34.712	121.683
MARIN	163.242	16.958	180.199
MARIPOSA	14.417	1.627	16.044
MENDOCINO	64.913	12.937	77.850
MERCED	146.290	57.963	204.252
MODOC	11.444	3.394	14.838
MONO	17.755	3.838	21.593
MONTEREY	202.010	47.748	249.758
NAPA	64.190	9.363	73.553
NEVADA	66.939	16.187	83.126
ORANGE	1461.619	209.302	1670.921
PLACER	194.243	43.265	237.509
PLUMAS	19.095	4.095	23.190
RIVERSIDE	1081.748	274.045	1355.792
SACRAMENTO	667.613	114.562	782.175
SAN BENITO	30.225	9.245	39.469
SAN BERNARDINO	1210.844	336.331	1547.176
SAN DIEGO	1581.563	223.177	1804.740
SAN FRANCISCO	192.419	17.406	209.825
SAN JOAQUIN	375.390	120.071	495.461
SAN LUIS OBISPO	164.085	34.284	198.369
SAN MATEO	372.280	39.404	411.685
SANTA BARBARA	206.022	34.003	240.025
SANTA CLARA	859.546	104.982	964.527
SANTA CRUZ	112.962	13.253	126.214
SHASTA	110.753	33.824	144.577
SIERRA	6.123	1.983	8.107
SISKIYOU	51.965	23.179	75.144
SOLANO	258.747	41.794	300.541
SONOMA	216.329	33.468	249.797
STANISLAUS	229.406	66.126	295.532
SUTTER	49.599	8.584	58.183
TEHAMA	53.785	19.984	73.769
TRINITY	9.906	2.420	12.326
TULARE	198.480	72.576	271.055
TUOLUMNE	36.132	5.332	41.464
VENTURA	379.208	54.834	434.042
YOLO	118.689	34.301	152.990
YUBA	38.591	9.753	48.344
TOTAL	18411.000	3638.000	22049.000

TABLE 3 - 2020 PROJECTED VFC BY COUNTY AND FUEL TYPE (MILLION GALLONS)

COUNTY	GASOLINE	DIESEL	TOTAL
ALAMEDA	884.717	138.122	1022.839
ALPINE	4.067	0.613	4.681
AMADOR	26.840	4.565	31.404
BUTTE	108.559	19.260	127.819
CALAVERAS	26.265	3.989	30.253
COLUSA	37.927	19.782	57.709
CONTRA COSTA	520.205	68.519	588.724
DEL NORTE	15.681	3.052	18.732
EL DORADO	105.236	16.226	121.462
FRESNO	499.436	135.265	634.701
GLENN	31.245	14.636	45.881
HUMBOLDT	80.733	18.105	98.838
IMPERIAL	120.552	38.295	158.847
INYO	33.239	7.770	41.009
KERN	503.917	233.600	737.517
KINGS	83.314	32.816	116.130
LAKE	36.996	7.144	44.141
LASSEN	32.307	10.683	42.990
LOS ANGELES	4891.613	824.076	5715.689
MADERA	96.012	38.280	134.292
MARIN	180.212	18.701	198.913
MARIPOSA	15.915	1.794	17.710
MENDOCINO	71.662	14.267	85.929
MERCED	161.498	63.921	225.419
MODOC	12.634	3.743	16.376
MONO	19.601	4.233	23.833
MONTEREY	223.011	52.656	275.667
NAPA	70.863	10.325	81.188
NEVADA	73.898	17.851	91.749
ORANGE	1613.568	230.819	1844.387
PLACER	214.437	47.713	262.150
PLUMAS	21.080	4.516	25.596
RIVERSIDE	1194.206	302.218	1496.423
SACRAMENTO	737.018	126.340	863.357
SAN BENITO	33.367	10.195	43.562
SAN BERNARDINO	1336.723	370.907	1707.631
SAN DIEGO	1745.982	246.121	1992.102
SAN FRANCISCO	212.423	19.195	231.618
SAN JOAQUIN	414.415	132.414	546.830
SAN LUIS OBISPO	181.143	37.808	218.952
SAN MATEO	410.983	43.455	454.438
SANTA BARBARA	227.440	37.499	264.939
SANTA CLARA	948.904	115.774	1064.678
SANTA CRUZ	124.705	14.615	139.320
SHASTA	122.267	37.302	159.568
SIERRA	6.760	2.187	8.947
SISKIYOU	57.367	25.562	82.929
SOLANO	285.646	46.091	331.737
SONOMA	238.818	36.909	275.727
STANISLAUS	253.255	72.924	326.179
SUTTER	54.755	9.466	64.222
TEHAMA	59.377	22.039	81.415
TRINITY	10.936	2.669	13.605
TULARE	219.114	80.037	299.150
TUOLUMNE	39.888	5.880	45.768
VENTURA	418.630	60.471	479.101
YOLO	131.028	37.828	168.856
YUBA	42.603	10.756	53.359
TOTAL	20325.000	4012.000	24337.000

TABLE 3 - 2025 PROJECTED VFC BY COUNTY AND FUEL TYPE (MILLION GALLONS)

COUNTY	GASOLINE	DIESEL	TOTAL
ALAMEDA	965.854	150.447	1116.301
ALPINE	4.440	0.668	5.108
AMADOR	29.301	4.972	34.273
BUTTE	118.515	20.979	139.494
CALAVERAS	28.674	4.344	33.018
COLUSA	41.405	21.547	62.952
CONTRA COSTA	567.912	74.633	642.546
DEL NORTE	17.119	3.324	20.443
EL DORADO	114.887	17.674	132.561
FRESNO	545.239	147.335	692.574
GLENN	34.111	15.942	50.053
HUMBOLDT	88.137	19.721	107.858
IMPERIAL	131.607	41.713	173.320
INYO	36.287	8.464	44.751
KERN	550.131	254.444	804.575
KINGS	90.955	35.745	126.699
LAKE	40.389	7.782	48.171
LASSEN	35.270	11.637	46.906
LOS ANGELES	5340.221	897.611	6237.832
MADERA	104.818	41.696	146.514
MARIN	196.739	20.370	217.109
MARIPOSA	17.375	1.955	19.330
MENDOCINO	78.234	15.540	93.774
MERCED	176.309	69.625	245.934
MODOC	13.792	4.077	17.869
MONO	21.398	4.611	26.009
MONTEREY	243.463	57.355	300.818
NAPA	77.362	11.247	88.609
NEVADA	80.675	19.444	100.119
ORANGE	1761.548	251.415	2012.963
PLACER	234.103	51.971	286.074
PLUMAS	23.014	4.919	27.932
RIVERSIDE	1303.726	329.185	1632.911
SACRAMENTO	804.609	137.613	942.223
SAN BENITO	36.427	11.105	47.531
SAN BERNARDINO	1459.314	404.004	1863.318
SAN DIEGO	1906.105	268.083	2174.188
SAN FRANCISCO	231.904	20.908	252.812
SAN JOAQUIN	452.421	144.230	596.651
SAN LUIS OBISPO	197.756	41.182	238.938
SAN MATEO	448.674	47.333	496.006
SANTA BARBARA	248.299	40.845	289.144
SANTA CLARA	1035.927	126.105	1162.032
SANTA CRUZ	136.142	15.919	152.061
SHASTA	133.480	40.630	174.110
SIERRA	7.380	2.382	9.762
SISKIYOU	62.628	27.843	90.472
SOLANO	311.842	50.204	362.046
SONOMA	260.720	40.202	300.923
STANISLAUS	276.481	79.431	355.913
SUTTER	59.777	10.311	70.088
TEHAMA	64.822	24.005	88.827
TRINITY	11.939	2.907	14.846
TULARE	239.209	87.179	326.387
TUOLUMNE	43.546	6.405	49.951
VENTURA	457.022	65.867	522.890
YOLO	143.044	41.203	184.248
YUBA	46.510	11.715	58.226
TOTAL	22189.000	4370.000	26559.000

TABLE 3 - 2030 PROJECTED VFC BY COUNTY AND FUEL TYPE (MILLION GALLONS)

COUNTY	GASOLINE	DIESEL	TOTAL
ALAMEDA	1055.479	165.010	1220.489
ALPINE	4.852	0.733	5.585
AMADOR	32.020	5.453	37.473
BUTTE	129.512	23.009	152.522
CALAVERAS	31.334	4.765	36.099
COLUSA	45.247	23.633	68.880
CONTRA COSTA	620.611	81.858	702.469
DEL NORTE	18.707	3.646	22.353
EL DORADO	125.548	19.385	144.933
FRESNO	595.834	161.596	757.430
GLENN	37.276	17.485	54.761
HUMBOLDT	96.316	21.630	117.945
IMPERIAL	143.820	45.750	189.570
INYO	39.654	9.283	48.937
KERN	601.180	279.074	880.253
KINGS	99.395	39.204	138.599
LAKE	44.137	8.535	52.672
LASSEN	38.542	12.763	51.305
LOS ANGELES	5835.760	984.496	6820.256
MADERA	114.544	45.732	160.276
MARIN	214.996	22.341	237.337
MARIPOSA	18.987	2.144	21.131
MENDOCINO	85.494	17.044	102.538
MERCED	192.669	76.365	269.034
MODOC	15.072	4.472	19.544
MONO	23.384	5.057	28.440
MONTEREY	266.055	62.907	328.962
NAPA	84.541	12.335	96.876
NEVADA	88.161	21.327	109.488
ORANGE	1925.009	275.751	2200.760
PLACER	255.826	57.001	312.827
PLUMAS	25.149	5.395	30.544
RIVERSIDE	1424.704	361.049	1785.753
SACRAMENTO	879.272	150.934	1030.206
SAN BENITO	39.807	12.179	51.987
SAN BERNARDINO	1594.729	443.111	2037.839
SAN DIEGO	2082.980	294.032	2377.012
SAN FRANCISCO	253.423	22.931	276.355
SAN JOAQUIN	494.403	158.191	652.594
SAN LUIS OBISPO	216.107	45.168	261.275
SAN MATEO	490.308	51.915	542.222
SANTA BARBARA	271.339	44.798	316.138
SANTA CLARA	1132.055	138.312	1270.366
SANTA CRUZ	148.775	17.460	166.235
SHASTA	145.866	44.563	190.429
SIERRA	8.065	2.613	10.678
SISKIYOU	68.440	30.538	98.978
SOLANO	340.779	55.063	395.842
SONOMA	284.913	44.094	329.007
STANISLAUS	302.137	87.120	389.257
SUTTER	65.324	11.309	76.633
TEHAMA	70.837	26.329	97.166
TRINITY	13.047	3.188	16.235
TULARE	261.406	95.617	357.023
TUOLUMNE	47.587	7.025	54.612
VENTURA	499.431	72.243	571.674
YOLO	156.318	45.191	201.509
YUBA	50.826	12.849	63.675
TOTAL	24248.000	4793.000	29041.000

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APPENDIX D

STATEWIDE TOTALS

Table 4 Statewide Vehicle Miles Traveled

Table 5 Statewide Vehicle Fuel Consumption

Table 6 Statewide Registered Vehicles

Table 7 Statewide Vehicle Fuel Economy

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Table 4: Statewide Vehicle Miles Traveled
Vehicle-Miles (Billions)

Year	Auto			Truck1			Truck2			Truck3			Truck4			MC	Total
	Gas	Diesel	Total	Gas	Diesel	Total	Gas	Diesel	Total	Gas	Diesel	Total	Gas	Diesel	Total	Gas	
1980	114.885	1.257	116.143	20.745	0.154	20.900	14.029	0.006	14.036	1.496	0.517	2.013	0.121	5.028	5.148	1.801	160.041
1985	143.636	3.533	147.169	28.157	0.680	28.836	15.326	0.929	16.256	1.433	1.131	2.564	0.052	5.626	5.678	1.561	202.065
1990	179.209	2.806	182.014	45.840	0.422	46.263	16.400	1.392	17.792	2.035	2.832	4.867	0.024	6.710	6.734	1.334	259.003
1995	196.198	1.905	198.103	41.470	0.275	41.745	19.776	1.909	21.685	1.922	5.872	7.794	0.020	6.516	6.536	1.105	276.968
2000	218.062	1.386	219.448	41.934	0.100	42.034	23.357	2.412	25.768	1.866	8.194	10.059	0.010	8.141	8.152	0.910	306.371
2005	233.191	1.197	234.388	33.908	0.017	33.925	33.161	3.769	36.931	2.037	9.960	11.997	0.014	8.725	8.740	1.466	327.446
2006	234.461	1.194	235.655	32.890	0.017	32.907	33.939	3.857	37.796	2.163	10.576	12.739	0.015	9.143	9.158	1.515	329.775
2007	239.144	0.997	240.141	34.604	0.014	34.618	33.822	3.619	37.441	2.172	10.145	12.316	0.018	9.166	9.184	1.520	335.221
2008	245.720	0.938	246.658	35.563	0.013	35.576	34.580	3.605	38.184	2.209	10.106	12.314	0.020	9.265	9.285	1.515	343.532
2009	252.004	0.888	252.892	36.519	0.012	36.531	35.260	3.588	38.848	2.393	10.737	13.130	0.022	9.986	10.009	1.514	352.923
2010	258.878	0.848	259.725	37.613	0.011	37.624	36.013	3.583	39.596	2.473	10.882	13.355	0.024	10.273	10.298	1.513	362.111
2015	295.568	0.734	296.301	43.676	0.007	43.684	40.253	3.691	43.944	2.907	11.868	14.775	0.034	12.028	12.062	1.511	412.276
2020	328.223	0.686	328.909	48.725	0.005	48.730	43.990	3.874	47.865	3.290	12.993	16.283	0.040	13.656	13.696	1.508	456.991
2025	359.071	0.692	359.763	53.306	0.004	53.310	47.971	4.184	52.155	3.627	14.220	17.846	0.045	15.043	15.087	1.505	499.666
2030	393.217	0.734	393.951	58.090	0.003	58.093	52.336	4.557	56.894	4.024	15.719	19.743	0.050	16.601	16.651	1.502	546.834

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Table 5: Statewide Vehicle Fuel Consumption

Gallons (Billions)

Year	Auto			Truck1			Truck2			Truck3			Truck4			MC	Total
	Gas	Diesel	Total	Gas	Diesel	Total	Gas	Diesel	Total	Gas	Diesel	Total	Gas	Diesel	Total	Gas	
1980	7.607	0.051	7.658	1.450	0.008	1.458	1.253	0.000	1.253	0.208	0.079	0.288	0.025	1.017	1.042	0.036	11.734
1985	8.166	0.138	8.304	1.710	0.028	1.739	1.322	0.047	1.369	0.231	0.174	0.405	0.011	1.108	1.119	0.031	12.966
1990	8.431	0.109	8.540	2.590	0.019	2.609	1.433	0.074	1.506	0.306	0.389	0.695	0.006	1.296	1.302	0.027	14.679
1995	8.803	0.072	8.875	2.200	0.012	2.212	1.539	0.101	1.640	0.271	0.757	1.028	0.004	1.163	1.167	0.022	14.944
2000	9.962	0.051	10.013	2.251	0.004	2.255	1.708	0.134	1.842	0.260	1.030	1.291	0.002	1.413	1.415	0.018	16.834
2005	10.815	0.042	10.858	1.831	0.001	1.832	2.278	0.215	2.493	0.281	1.233	1.513	0.002	1.473	1.475	0.029	18.201
2006	10.700	0.040	10.740	1.789	0.001	1.790	2.329	0.209	2.538	0.300	1.240	1.540	0.003	1.457	1.460	0.031	18.098
2007	10.766	0.035	10.801	1.857	0.001	1.857	2.289	0.207	2.495	0.298	1.252	1.550	0.003	1.533	1.536	0.030	18.270
2008	11.020	0.033	11.053	1.902	0.001	1.902	2.329	0.206	2.535	0.303	1.245	1.548	0.003	1.542	1.545	0.030	18.613
2009	11.261	0.031	11.292	1.947	0.000	1.948	2.365	0.205	2.570	0.328	1.321	1.648	0.004	1.655	1.659	0.030	19.147
2010	11.531	0.030	11.561	2.000	0.000	2.001	2.407	0.205	2.612	0.338	1.337	1.676	0.004	1.696	1.700	0.030	19.579
2015	13.014	0.026	13.040	2.301	0.000	2.301	2.663	0.211	2.874	0.397	1.454	1.851	0.006	1.947	1.953	0.030	22.049
2020	14.386	0.024	14.410	2.554	0.000	2.554	2.899	0.221	3.120	0.449	1.589	2.038	0.007	2.177	2.184	0.030	24.337
2025	15.705	0.024	15.730	2.792	0.000	2.792	3.159	0.239	3.398	0.495	1.738	2.233	0.008	2.368	2.376	0.030	26.559
2030	17.176	0.026	17.202	3.040	0.000	3.041	3.445	0.260	3.705	0.548	1.921	2.470	0.008	2.585	2.594	0.030	29.041

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Table 6: Statewide Registered Vehicles

Vehicles (Millions)

Year	Auto			Truck1			Truck2			Truck3			Truck4			MC	Total
	Gas	Diesel	Total	Gas	Diesel	Total	Gas	Diesel	Total	Gas	Diesel	Total	Gas	Diesel	Total	Gas	
1980	11.415	0.090	11.505	2.118	0.010	2.128	1.200	0.000	1.200	0.177	0.021	0.198	0.018	0.127	0.144	0.573	15.748
1985	12.527	0.258	12.785	2.500	0.043	2.544	1.320	0.054	1.374	0.148	0.035	0.182	0.009	0.110	0.119	0.651	17.654
1990	14.720	0.255	14.975	3.666	0.037	3.702	1.471	0.095	1.565	0.182	0.081	0.263	0.005	0.125	0.130	0.606	21.242
1995	15.264	0.189	15.454	3.291	0.030	3.321	1.723	0.132	1.856	0.160	0.165	0.325	0.002	0.101	0.103	0.500	21.559
2000	16.821	0.150	16.971	3.389	0.018	3.407	1.852	0.173	2.025	0.149	0.232	0.381	0.001	0.126	0.127	0.414	23.326
2005	18.598	0.140	18.738	3.059	0.009	3.068	2.351	0.264	2.614	0.150	0.296	0.446	0.001	0.136	0.137	0.667	25.669
2006	18.899	0.143	19.041	3.010	0.009	3.019	2.432	0.273	2.705	0.155	0.307	0.462	0.001	0.139	0.140	0.688	26.055
2007	19.412	0.123	19.535	3.200	0.008	3.208	2.465	0.268	2.734	0.153	0.309	0.462	0.001	0.140	0.141	0.691	26.770
2008	19.792	0.115	19.907	3.266	0.007	3.273	2.519	0.269	2.789	0.155	0.314	0.469	0.001	0.142	0.144	0.688	27.270
2009	20.155	0.108	20.263	3.328	0.007	3.335	2.571	0.271	2.842	0.157	0.319	0.476	0.001	0.144	0.146	0.688	27.750
2010	20.528	0.101	20.630	3.393	0.006	3.399	2.624	0.272	2.896	0.159	0.325	0.484	0.001	0.146	0.148	0.688	28.243
2015	22.550	0.078	22.628	3.736	0.004	3.740	2.907	0.280	3.187	0.173	0.353	0.526	0.001	0.158	0.160	0.687	30.926
2020	24.543	0.066	24.608	4.071	0.003	4.074	3.180	0.292	3.472	0.189	0.380	0.568	0.001	0.171	0.172	0.685	33.580
2025	26.452	0.060	26.512	4.392	0.002	4.393	3.437	0.306	3.744	0.204	0.406	0.610	0.002	0.183	0.184	0.684	36.128
2030	28.502	0.059	28.561	4.734	0.001	4.735	3.709	0.326	4.035	0.221	0.435	0.655	0.002	0.196	0.198	0.683	38.867

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Table 7: Statewide Vehicle Fuel Economy

Miles Per Gallon

Year	Auto			Truck1			Truck2			Truck3			Truck4			MC	Total*
	Gas	Diesel	Total*	Gas													
1980	15.103	24.773	15.167	14.308	18.981	14.334	11.200	20.620	11.202	7.179	6.512	6.995	4.787	4.945	4.941	50.000	13.638
1985	17.590	25.527	17.722	16.466	23.844	16.587	11.593	19.897	11.876	6.205	6.493	6.329	4.760	5.079	5.076	50.000	15.584
1990	20.814	25.766	20.877	18.567	23.912	18.605	11.902	19.645	12.280	6.603	7.109	6.886	5.245	5.353	5.352	50.000	17.605
1995	22.182	26.264	22.215	18.759	23.254	18.783	12.790	18.872	13.164	7.069	7.718	7.547	5.661	5.576	5.577	50.000	18.446
2000	21.910	27.303	21.937	18.644	23.591	18.654	13.691	17.985	14.004	7.161	7.953	7.793	5.693	5.760	5.760	50.000	18.215
2005	21.562	28.205	21.588	18.518	23.574	18.520	14.555	17.545	14.812	7.259	8.080	7.928	5.767	5.924	5.924	50.000	17.991
2006	22.131	28.224	21.942	18.567	25.537	18.387	14.717	17.528	14.893	7.271	8.092	8.270	5.776	5.954	6.275	50.000	18.211
2007	22.213	28.313	22.233	18.637	24.000	18.639	14.779	17.520	15.006	7.284	8.105	7.947	5.785	5.979	5.979	50.000	18.348
2008	22.298	28.364	22.316	18.701	24.000	18.702	14.847	17.513	15.063	7.290	8.118	7.956	5.795	6.009	6.008	50.000	18.456
2009	22.378	28.598	22.395	18.755	24.000	18.757	14.910	17.511	15.117	7.302	8.131	7.966	5.799	6.034	6.033	50.000	18.432
2010	22.451	28.616	22.467	18.804	24.000	18.805	14.960	17.509	15.160	7.308	8.137	7.970	5.804	6.058	6.058	50.000	18.495
2015	22.711	28.482	22.722	18.980	24.000	18.981	15.115	17.504	15.290	7.327	8.162	7.983	5.827	6.178	6.177	50.000	18.698
2020	22.816	28.354	22.825	19.077	24.000	19.077	15.174	17.499	15.339	7.333	8.175	7.990	5.836	6.272	6.271	50.000	18.777
2025	22.863	28.320	22.871	19.090	24.000	19.091	15.186	17.500	15.349	7.333	8.181	7.993	5.846	6.352	6.350	50.000	18.814
2030	22.894	28.320	22.902	19.106	24.000	19.106	15.192	17.500	15.354	7.339	8.181	7.994	5.846	6.421	6.419	50.000	18.830

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GLOSSARY

Corporate Average Fuel Economy (CAFE): the required average fuel economy for a vehicle manufacturer's entire fleet of passenger cars and light trucks for each model year. It applies to passenger cars and light trucks with a gross vehicle weight rating (GVWR) of 8,500 pounds or less manufactured for sale in the United States. CAFE values are obtained using the same test data generated by the fuel economy tests used to determine the fuel economy estimates for the Guide and labels, but the test results are not adjusted to account for real-world conditions. Instead, the results from the city and highway tests are combined. Environmental Protection Agency (EPA) administers the testing program, which generates the fuel economy data and determines the procedures for calculating the fuel economy values for CAFE. The National Highway Traffic and Safety Administration (NHTSA), which is part of the Department of Transportation is responsible for establishing and amending the CAFE standards for trucks. Congress sets the CAFE standards for cars. EPA reports the CAFE results for each manufacturer to NHTSA annually, and NHTSA determines if the manufacturers comply with the CAFE standards and assesses penalties as required.

Vehicle Body Types: The motor vehicle fleet is stratified into six classes by body type as follows:

- AUTOS AUTOS include all passenger vehicles registered as regular autos and station wagons
- TRUCK1 TRUCK1 includes all Truck Gross Vehicle Weight Class 1 trucks (GVW 0 to 6,000 pounds)
- TRUCK2 TRUCK2 includes all Truck Gross Vehicle Weight Class 2 trucks (GVW 6,001 to 10,000 pounds)
- TRUCK3 TRUCK3 includes trucks of Truck Gross Vehicle Weight Class 3 (GVW 10,001 to 14,000 pounds), Class 4 (GVW 14,001 to 16,000 pounds), Class 5 (GVW 16,001 to 19,500 pounds), Class 6 (GVW 19,501 to 26,000 pounds), and Class 7 (GVW 26,001 to 33,000 pounds)
- TRUCK4 TRUCK4 includes all trucks of Truck Gross Vehicle Weight Class 8 and above (GVW 33,001 + pounds)
- MC MC includes all registered motorcycles, which excludes motor-bicycles and off-road motor-powered bikes.

Vehicle Fuel Consumption (VFC): Total fuel consumed by all vehicles during selected time period in geographic segment.

Vehicle Miles Traveled (VMT): Total distance traveled by all vehicles during selected time period in geographic segment.